A Community Coalition to Address Cancer Disparities: Transitions, Successes and Challenges

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Abstract Community-based participatory (CBP) strategies are considered important to efforts to eliminate disparities. This paper outlines how the Program for the Elimination of Cancer Disparities (PECaD) uses CBP strategies as a part of a long-term cancer education, prevention, and control strategy in an urban community. Community partnerships have proved to be vital resources to inform PECaD's agenda and the research practice of academic partners. We begin with a description of PECaD governance and partnership structures. The paper then describes programmatic activities and successes, including efforts to monitor clinical trials, deployment of mammography resources, anti-smoking, and prostate and colorectal cancer (CRC) screening education. The influence of changes in funding priorities, preventive screening policy, and community partner development on the partnership process over time is discussed. PECaD community partners have grown and expanded beyond the Program's mission and developed additional partnerships, resulting in a reevaluation of relationships. The impact of these external and internal changes and pressures on the partnerships are noted. The evolution of the evaluation process and what it has revealed about needed improvements in PECaD activities and operations is

Introduction

Community engagement requires respect for the values of the community and the value of incorporating community perspectives and insights into research and interventions [1]. A community engagement approach promotes changes in programs and policies designed to improve health through mobilization and organization of resources, individuals, and institutions [2–4]. Community-based participatory (CBP) processes have been identified as potential methods to address disparities [5–7] due to their emphasis on partnership with and participation by the communities, from conceptualization of the ideas and methods, to implementation of services and activities and interpretation and dissemination of results [4, 8]. This approach to disparities reduction is believed to improve community acceptance of and implementation of cancer prevention activities, including screening [5, 7].

presented. A summary of the lessons learned and their impli-

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cations for CBP practice are provided.

Proponents of CBP-based efforts suggest that the process achieves its aims through principles focused on bringing together researchers, practitioners, and communities to establish trust, share power, foster co-learning, enhance strengths and resources, build capacity, and examine and address community-identified needs and health problems [3, 4]. The success of CBP approaches depends on trust and rapport with community members and strong community-practitioner/researcher relationships [2]. In addition, CBP's ability to generate novel partnerships may contribute to its value in the reduction of health disparities [9].

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Examinations of CBP efforts suggest that institutional and faculty commitment to engagement principles, flexible and inclusive governance structures, and strategies to educate community members must be developed to assure that the barriers to CBP frequently identified in the literature do not inhibit success [10]. The development of the relationships, trust, and rapport required for CBP can be inhibited by imbalances in power and knowledge that often exist among practitioners, researchers, and the community members engaged in the CBP effort [10]. In addition, equal participation in efforts seems particularly difficult to achieve given differences in community and academic priorities [7]. Systematic reviews of CBP clinical trials and other research efforts found that few studies involved the community in the planning, implementation, analyses, and dissemination of the results of the work [7, 11].

Process issues can affect how effective CBP is in meeting goals to eliminate health disparities. The extent to which funding, budgeting, and governance issues, as well as roles and responsibilities as they relate to data collection, education, and services are formalized, monitored, and adjusted can be important to accountability and maintaining the long-term efforts that are likely to affect health disparities [7]. While there have been calls to evaluate the fidelity with which CBP principles are applied [12], attempts to understand the CBP processes that lead to achieving project goals is more recent [13].

This paper describes the process of developing relationships and governance structures to guide a program focused on the reduction of cancer disparities, using CBP theoretical principles. A description of how shifts in preventive screening policy and changes in community organizations and activism affect the ebb and flow of education and screening activities is provided. The factors that contributed to the development of an evaluation process consistent with the evolving science of CBP practice is discussed in relationship to efforts to structure community input and support maintenance of relationships.

Program Overview

In 2003, SEER data indicated that all site cancer mortality in Missouri (per 100,000) was higher among African Americans (261.7) compared with Whites (198.5) and other minorities (157.2) [14]. This excess cancer burden was particularly acute in the St. Louis metropolitan statistical area and was the impetus for the development of the Program for the Elimination of Cancer Disparities (PECaD) at the Alvin J. Siteman Cancer Center (SCC), St Louis, MO of Washington University School of Medicine (WUSM) and Barnes-Jewish Hospital (BJH). PECaD was established in 2003 as an attempt to develop a national model for eliminating cancer disparities through application of the philosophy and principles of community-based participatory research (CBPR). In 2005, PECaD became one of the Community Networks Program

(CNP) National and Regional Centers for Reducing Cancer Health Disparities, funded by the National Cancer Institute's (NCI) Center to Reduce Cancer Health Disparities (CRCHD; 5 U01 CA 114594). While prostate, CRC, and lung cancer mortality have decreased, PECaD continues its efforts.

Governance The Disparities Elimination Advisory Committee (DEAC), a community-based advisory group, was established at PECaD's inception. DEAC is made up of cancer survivors and advocates, representatives from health care and social service organizations, academic researchers, minority media, clinicians, and staff. These relationships among the members and the Program are formalized through MOUs [7]. The original members of DEAC were invited by the Program PIs, but new members are now nominated and elected by current members. The election procedures include a nomination process, with review of resumes and nomination statements for evidence of community participation and consideration of diversity in representation. DEAC meets quarterly; provides guidance and direction for PECaD programs; reviews the development, implementation, and evaluation of cancer control and prevention activities; recommends collaborations; and shares information on programs and resources.

The leadership team works in conjunction with DEAC and is responsible for guiding the implementation of PECaD programs and translating DEAC discussions into relevant programmatic plans. This team, composed of the DEAC Chair, study PIs, Training, and Community Outreach PIs, and the Project Coordinator (PC) is also responsible for publication and dissemination of research findings to the community, cancer center, and grant agencies. The PC also serves as a Community Health Educator (CHE) who uses the resources of the NCI's National Outreach Network (NON) to build and sustain outreach and research dissemination of evidence-based cancer information.

Despite early formalized relationships, the leadership structure of DEAC has evolved over time. Initially, the committee was led by academic researchers who were interested in CBPR efforts as a method of achieving program goals. Once funding was secured, PIs continued leading committee activities; however, the leadership team began to question whether this structure was consistent with CBP principles that call for power sharing [3]. In 2010, DEAC began electing a community co-chair from among nominees submitted to the committee to serve with the academic/researcher co-chair. The co-chairs represent PECaD and community viewpoints on issues related to cancer disparities at national and regional meetings and plan the agenda for PECaD and DEAC meetings. The change in leadership strategy also made the community co-chair a member of the internal leadership team.

Programming Program building began with several activities that permitted identification of community concerns within PECaD's capacity to respond (see Table 1). One of the first



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Table 1 Highlights of PECaD activities and achievements

2003	
DEAC established	Ongoing
An institutional strategy to increase minority recruitment to therapeutic trials. There has been approximately a 3.1 % increase in minority accrual to clinical studies since 2005 2005	Publication 2013
NCI Community Networks Partnership Funding	Refunded 2010
2006–2007	Kelulided 2010
Identification of community concerns and priorities through strategic action workshops Supported research to describe the network of cancer support service providers in the metropolitan area for minority and underserved patients and examine how network agencies interact and collaborate with each other	Last updated 2013
Disease partnerships established (LCCP	Ongoing
disbanded) Pilot funding to develop a tool to facilitate informed decision making in prostate cancer community outreach to African–American men	2007–2008
Prostate cancer education	Ongoing
Research on breast cancer presentation in an urban	Publication 2011
health care safety net system Collaboration to identify patient and process factors contributing to late stage breast cancer presentation	Publication 2012
Lung cancer disparities awareness training	
Smoke free coalitions and campaigns	2007–2008
Youth anti-smoking and cancer education	2007–2008
2008	
Pilot funding to explore African–American parents' knowledge of HPV and HPV vaccination	Publications in 2011
Minority supplement to study use of technology to provide colorectal cancer education to African American men	Publication in 2013
Education and prevention messages in the African–American newspaper	2008–2013
2009	
Patient navigation for breast cancer screening (of the women navigated, 94.5 % got a	2009–2011
mammogram during the study period) Reporting research findings back to the community	Ongoing
2010	
PECaD Newsletter to over 400 academic and community partners	Ongoing
Quality improvement breast cancer regional navigation work group formed	Ongoing
Established formal training program (14 research	Ongoing
professionals trained) Pilot funding to assess barriers to minority	Completed 2012
participation in tissue research Public library community cancer education	Ongoing
capacity building Faith-based community cancer education capacity	Ongoing
building	2010–2015

Table 1 (continued)

Colorectal cancer screening randomized control trial	
2011	
Education and prevention messages on the radio (24 live interviews)	2011–2014
Photo voice project to engage community members about colorectal cancer screening	2011–2013
2012	
Education and prevention messages with St. Louis metro transmit	
Pilot funding for Community Research Fellows Training (CRFT)	2012–2013
CBPR approach to improving breast cancer services for women living in St. Louis	2012–2014
2013	
Supplement to expand CRC outreach/partnership	2013-2014
Library outreach expanded	
2014	
Colorectal cancer community education workshop	
Institutional funding for CRFT 2	2014

issues identified was the way research was conducted in the African-American community. These concerns led DEAC to request that WUSM researchers engage in a dialog with community members, particularly the African-American community, in order to improve the conduct, relevance, and influence of research on cancer disparities. To facilitate this activity, a project team conducted key informant interviews with community leaders, including minority physicians and focus groups [15]. While members of the community recognized the importance of research, participants questioned the motives of researchers and cited inexperience as problems in the research enterprise. Participants highlighted researchers' failure to provide descriptions of projects that were easy to understand and poor dissemination of research results back to the community as barriers to participation. The minority physicians interviewed supported these issues while raising additional concerns. Minority physicians noted the failure to collaborate with community practitioners, failure to hire research/ intervention staff from the community, and compensation levels that failed to address transportation, medications, and the time required for participation. These results contributed to PECaD's early focus on researcher training.

The second programmatic effort formalized strategic disease partnerships and provided oversight to disparity activities, services, and research for each disease. Each of four partnerships (breast, colon, lung, and prostate) is briefly described.

 The Breast Cancer Partnership (BCaP) is the oldest of the disease partnerships and is made up of cancer survivors, advocates, representatives and providers from health care



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and social services, academic researchers, clinicians, and staff. The partnership, which began meeting on a monthly basis in January of 2006, helps to facilitate dialog and strategic planning to address breast cancer disparities. BCaP's early efforts included education and support for survivors and currently focus on structural barriers to preventive screenings. The partnership now meets quarterly and updates its goals each year.

- The Prostate Cancer Community Partnership (PCCP), which has a similar composition as the BCaP, was originally focused on educating high-risk, African—American men about prostate cancer. Although there were earlier prostate cancer awareness activities in the St. Louis area, PECaD provided leadership. The group began meeting monthly in January of 2007 and worked with the Internal Leadership Team to secure funding for joint education and screening events with both faith-based and survivor-focused groups. PCCP trained men to deliver prostate cancer education and played a significant role in an early PECaD pilot grant supplement used to develop the prototype for prostate cancer education used by the group's speakers bureau.
- The Colorectal Cancer Community Partnership (CCCP) is the smallest of the disease-specific groups. The partnership's goals and objectives include education and the reduction of economic and resource barriers to screening in underserved communities. Over time, the CCCP influence and membership have grown leading to input into the full research trial of the most recent PECaD grant and was instrumental in developing a NCI-funded grant to conduct community-engaged research on CRC screening using Photovoice. The resulting Photovoice 'posters' have been integrated into PECaD Outreach activities.
- The Lung Cancer Community Partnership (LCCP), which is no longer in existence, began its activities in 2006. Members decided to focus on heightening awareness of lung cancer disparities within the medical community and the inclusion of minorities in lung cancer clinical trials. In 2008, the LCCP participated in a DEAC-led conference series focused on cancer disparities to increase awareness among members of the medical community. The group also focused on youth tobacco education programs and participated actively in the Smoke-Free Saint Louis Tobacco Coalition.

The third major DEAC initiative was the organization, development, and implementation of recommendations from a series of strategic action workshops. These agenda setting workshops were a strategy for gaining broader community input than DEAC or the disease groups could provide. The strategic action workshops were held between October of 2006 (colorectal) and July of 2007 (Lung). While broad community representation at the workshops varied by disease group, all of the workshops were attended

by researchers and representatives from health organizations. The prostate strategic action workshop included members of an American Cancer Society prostate cancer group that was ending, a faith-based cancer coalition and members of a community prostate cancer advocacy group. The breast cancer workshop included representatives of the Breast Cancer Community Partnership (BCaP) that had started to meet, the Witness Project of Greater St. Louis, the American Cancer Society, and the Breast and Cervical Cancer Control Project. The lung cancer workshop included advocates from the smoke-free coalitions. Workshops consisted of research presentations and interactive brainstorming, categorization, and prioritization activities. A written summary, outlining future goals and objectives for each group, was distributed to DEAC and the relevant partnership. While useful in guiding early work, this community input strategy was not sustained.

Successes

Table 1 provides a time line of program activities. The successes of PECaD's health disparity work are strongly related to its ability to respond to partner-identified concerns [9]. Breast cancer disparity activities including a partnership with a local Federally Qualified Health Center (FQHC) and support of navigator service improvement are examples. Collaboration to expand mammography service into a FQHC identified unserved region led to a grant application. PECaD identified barriers to service and strategies for implementing needed resources; funding provided a mammographer, navigation, co-pay, and information technology assistance and evaluation. Evaluation data were shared with the partner and used to identify funding to incorporate mammography services into the regular service line. Similarly, a navigator work group identified the need to discuss challenges to guiding women to services and ways to work around those challenges. The group, with some PECaD support, engages navigators from both Illinois and Missouri in discussion quarterly.

Education efforts have capitalized on novel partnerships [9]. PECaD brought together the Becker Medical Library and the Saint Louis Public Library (SLPL). This partnership, established in 2008, uses the library as a central "hub" for the community to receive health information. PECaD has cancer resources in informational kiosks at five SLPL libraries located in areas with high mortality rates and two *Eight Ways to Prevent Cancer* [16] DVDs are circulating through all 19 of the SLPL library branches. PECaD also provides training on identifying reputable health resources to SLPL staff so that they are better able to assist community members seeking health information. The library effort expanded to include



the integration of cancer prevention information and resources into existing kiosks in the County Library system, resulting in PECaD's ability to reach more than 200,000 residents throughout the Saint Louis Metropolitan Area. A bill board campaign was also added (making 12,911,000 impressions) to efforts.

In addition to standard community disparities education, PECaD researchers have developed and implemented a community education model to facilitate co-learning [10] between academic and community partners wishing to engage in community-based participatory research (CBPR) [5, 17, 18]. Implemented in 2013, the Community Research Fellows Training was adapted from the CARES training [19] and enhances community potential to engage as equals with academic researchers [10, 18]. It has trained 83 community members, with participants now engaging in diverse activities that include partnership participation, research project coordination, and advisory board service.

Table 2 Progression of PECaD CBP evaluation

	2003–2007	2007–2010	2011–2014
Scientific progression			
Peer-reviewed publications	X	X	X
Grants applied for	X	X	X
Community engagement in PECaD			
New community-academic research partnerships developed		X	
Level of engagement in each partnership (years involved, role, activities)		X	
Research questions or projects emerging from existing collaborations		X	
CBPR survey*			X
Community attitudes toward medical research			
Focus groups	X		
Pre/post-tests following community research training CBPR survey*		X	X
CBPR* survey topics	Characteristics of the partnership (geography, organizations, gender, race/ethnicity, length of participation, role		
	Accomplishments of		
	Overall effectiveness on CBPR principles (1, 2,3, 4,6, 7, 8, New partnerships and research questions/projects developed emerging from activities		
How well partnership uses members' time			
	Level of influence of self and others in group in partnership		
	Facilitation of member involvement in partnership		
	Member satisfaction with role in partnership		
	Membership satisfaction with influence in partnership		
	Comfort level for expressing opinions in partnership		
	Perceived level of openness in partnership		
	Perceived level of trust in partnership		
	Community benefits of participation		
	Community empowerment		
	Institutionalization of programs and/or partnerships		

Challenges

The disease partnerships are the components of the PECaD CBP effort that appear to have experienced the greatest challenges as the program transitioned through shifts in cancer screening policy and funding cycles. Further, community organizations grew and matured, which resulted in changing interests and desires to partner. Despite its original focus, disparity awareness among physicians and medical researchers was never a priority activity; LCCP activities targeted development of local smoke-free coalitions and environment legislation almost exclusively. With policy advocacy successes and the strength and viability of community tobacco-free coalitions and organizations to continue youth education activities, activities waned and LCCP dissolved by the end of the initial CNP funding cycle.



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The CCCP's issues were different; CRC screening access was a major CCCP focus in underserved communities. The CDC funded Missouri Screen for Life program lost funding that was not replaced at similar levels and challenged the CCCP's strategy for addressing CRC screening barriers. In 2008, with new research leadership, a reinvigoration effort was initiated that brought new survivors and family members to the group. Using supplemental funds, a nominal group process was used to assist members to identify and select activities that include community education events and the development of a CRC resource guide. The group now plans to review its goals every 2 to 4 years.

From 2007 to 2010, PECaD facilitated training of community members who participated in a Speakers Bureau that provided prostate cancer education and screening information. Over this time, research partnerships outside of PECaD expanded and prostate partners began to provide screening events and survivor support activities beyond those that were offered through PECaD. Changes occurred in prostate cancer screening recommendations and policy that affected funding to support PCCP screening efforts [20]. The shift in PECaD's ability to support screening activities was related to funding changes that followed the policy shift [20]. Given this shift and the depth and breadth of partner activities, PCCP recognized the need to determine new goals and priorities and became a support for partner organizations.

Issues of accountability have emerged as a major challenge [7]. Although active and stable, BCaP continues to express a desire for more frequent data sharing [9]. PCCP members verbalized their frustration with what was perceived as a lack of input and leadership from academic research partners in response to changes in prostate screening guidelines. Neither group felt that the DEAC response to input was sufficient. The DEAC itself, with input from the internal leadership team, recognized that while there had been informal assessments and discussions, there were no formal methods for evaluating partnership effectiveness, whether in terms of implementation of CBPR principles and community relationships or program goals and objective. In 2011, a formal evaluation was implemented that highlighted gaps in community representation on the DEAC (see Table 2 for overview of evaluation).

Discussion

PECaD has come to appreciate the opportunities and challenges that adherence to CBP principles generates. Using a layered leadership strategy and with three of four disease partnerships continuing, PECaD has successfully engaged community partnerships to inform health disparities research and outreach. It has avoided the loss of program activities [9] and has a framework for moving forward. While useful, maintaining disease rather than research-focused partnerships

has presented challenges. Clearly, there is no "one" way for partnerships to function; each partnership is composed of different stakeholders, so the groups set levels and inputs with which they are comfortable. While some partners have expressed frustration with researchers' level of input, other partners have advocated for greater community input and this ongoing tension must always be addressed.

Implementation of strategic planning and ongoing evaluation of the partnership has resulted in adjustments of DEAC/leadership team representation and processes. Systematic evaluation and periodic review are now used to ensure appropriate and meaningful activities that allow partners and researchers to collaboratively respond to changing policy and funding environments in mutually satisfying ways [7]. In addition, they are used to identify priorities, gaps in research, education, and services that support collaborations that will eliminate cancer disparities. Our experiences and evolving evaluation activities have led to the following lessons.

- Advisory board and partnership discussions are insufficient to identify and assure resolution of conflicts and concerns between and among partners. Formal processes are essential to adequate response and we are now developing these.
- Evaluation data must be systematically reviewed with the community to assure that representation and input are sufficiently diverse. Our last review led to a targeted membership expansion.
- 3. Our failure to evaluate CBP principles early in our work contributed to the failure to observe principles and to hear and respond to emerging concerns among partners. For example, shared leadership was not recognized as an issue until 2010. Interestingly, the area of concern not assessed in our current evaluation—recognition of conflicts, constructive conflict resolution, and agreed-upon problem-solving processes—are the areas that have generated ongoing concerns among partners and must be addressed.

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References

 Sapienza JN, Corbie-Smith G, Keim S, Fleishman AR (2007) Community engagement I epidemiological research. Ambul Pediatr 7:247–252



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 D'Alonzo KT (2010) Getting started in CBPR: lessons in building community partnerships for new researchers. Nurs Inq 17:282–288. doi:10.1111/j.1440-1800.2010.00510.x

- Israel BA, Eng E, Schulz AJ, Parker EA (2005) Methods in community-based participatory research for health. John Wiley & Sons. San Francisco
- Wallerstein N, Duran B (2010) Community-based participatory research contributions to intervention research: the intersection of science and practice to improve health equity. Am J Public Health 100:S40–S46
- Wallerstein NB, Duran B (2006) Using community-based participatory research to address health disparities. Health Promot Pract 7:312–323
- Jones L, Wells K (2007) Strategies for academic and clinician engagement in community-participatory partnered research. J Am Med Assoc 297:407–410
- Cargo M, Mercer SL (2008) The value and challenges of participatory research: strengthening its practice. Ann Rev Public Health 29: 325–350
- Seifer S (2006) Community-based participatory research. Community-Campus Partnerships for Health, Michigan. Available at: http://depts.washington.edu/ccph/pdf_files/p-msu-cbpr.pdf. Accessed 18 Sept 2014
- Horowitz CR, Robinson M, Seifer S (2009) Community-based participatory research from the margin to the mainstream are researchers prepared? Circulation 119(19):2633–2642
- Weerts DJ, Sandmann (2008) Building a two-way street: challenges and opportunities for community engagement at research universities. Rev High Educ 32:73–106
- De las nueces D, Hacker K, Digirolamo A, Hicks LS (2012) A systematic review of community-based participatory research to enhance clinical trials in racial and ethnic minority groups. Health Serv Res 47:1363–1386. doi:10.1111/j.1475-6773.2012.01386.x

- Schulz AJ, Israel BA, Lantz P (2003) Instrument for evaluating dimensions of group dynamics within community-based participatory research partnerships. Eval Program Plan 26:249–262. doi:10. 1016/S0149-7189(03)00029-6
- Khodyakov D, Stockdale S, Jones A, Mango J, Jones F, Lizaola E (2013) On measuring community participation in research. Health Educ Behav 40:346–354. doi:10.1177/1090198112459050
- 14. Program for the Elimination of Cancer Disparities (PECaD) (2010) Report to stakeholders 2005–2010 past, present and future: progress, key accomplishments and challenges toward the elimination of cancer disparities. http://www.siteman.wustl.edu/uploadedFiles/ Research_Programs/Program_for_the_Elimination_of_Cancer_ Disparities/PECaD. Accessed 18 Sept 2014
- Scharff DP, Matthews KJ, Jackson P, Hoffsuemmer J, Martin E, Edwards D (2010) More than Tuskegee: understanding mistrust about research participation. J Health Care Poor Underserved 21(3): 879–897
- Dart H, Wolin KY, Colditz GA (2012) Commentary: eight ways to prevent cancer: a framework for effective prevention messages for the public. Cancer Causes Control 23(4):601–608
- Minkler ME, Wallerstein NE (2003) Community based participatory research for health. Jossey-Bass
- Flicker S, Travers R, Guta A, McDonald S, Meagher A (2007) Ethical dilemmas in community-based participatory research: recommendations for institutional review boards. J Urban Health 84:478–402
- Goodman MS, Dias JJ, Stafford JD (2010) Increasing research literacy in minority communities: CARES fellows training program. J Empir Res Human Res Ethics 5:33–41
- Moyer VA (2012) Screening for prostate cancer: US Preventive Services Task Force recommendation statement. Ann Intern Med 157(2):120–134

