Defining and measuring synergy in long-standing community-based participatory research partnerships: Results from Measurement Approaches to Partnership Success (MAPS)*

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Highlights

- Synergy is considered central to effective partnerships.
- Measures of partnership synergy specific to long-standing CBPR partnerships are lacking.
- A 7-item measure of Partnership Synergy was developed by integrating knowledge from diverse community-academic CBPR experts and from a focused literature review.
- Assessing partnership synergy can strengthen CBPR partnerships to promote change for health equity.

Understanding what contributes to success of community-based participatory research (CBPR) partnerships is essential to ensure their effectiveness in addressing health inequities. Synergy, the concept of accomplishing more together than separately, is critical to many frameworks of CBPR and partnerships broadly. However, we know of no definitions and measures of synergy specific to long-standing CBPR partnerships.

Measurement Approaches to Partnership Success (MAPS)

To better understand success in long-standing CBPR partnerships, the Detroit Urban Research Center is conducting a mixed methods study, MAPS, to develop and validate an instrument to measure synergy and other dimensions of partnership success. Synergy is an intermediate outcome in the model. This practical tool can be used by partnerships to assess and strengthen their own partnership efforts to achieve health equity.

Methods

MAPS is employing a multi-phase, mixed methods, and community-based participatory approach, framed by a conceptual model and guided by the Detroit URC Board. Methods include:

- Key Informant Interviews
- Literature Review
- Three-round Delphi Process
- Cognitive Interviews
- Pilot Testing

National Expert Panel. A national panel of 8 community and 8 academic experts with extensive long-term experience in CBPR is engaged in all major phases of MAPS, including serving as key informants and participating in the Delphi process. The panel represents all regions of the US and includes urban, rural, and suburban communities, and tribal nations; three-fourths of panel members are persons of color.

Results

Partnership Synergy Definition

Community and academic partners accomplish more together than could be accomplished alone to make changes identified by the partnership.

Partnership Synergy Items

Through an iterative process using multiple methods, a set of questionnaire items were developed to measure partnership synergy as an intermediate outcome in the model of CBPR partnership success.

*With acknowledgement to the National Institute of Nursing Research (Grant #RO1NRO16123) and colleagues at the Detroit URC.
**MAPS Principal Investigators
Themes and quotes from key informant interviews:

1) Whole is greater than sum of the arts: better together than alone
   "You come with a set of skills and an identity, but you don't necessarily force something in a direction that is inappropriate for the other person. You work together to actually mirror each other, and where you get to is better than either would've gotten to alone, if you just stayed in your own self."  
   Academic Expert Panel member

2) Leveraging existing resources in building partnership capacity and enhancing each other's work
   "It's how you leverage the resources around your [partnership] to aid new opportunities for community input in other issues we hadn't thought about before... Because of that, we leveraged our creative synergy for another project that's doing its own thing now."  
   Community Expert Panel member

3) Combining different perspectives to form new knowledge
   "I think that's what CBPR does, is you bring in opposites, the professional academic perspective and resources and culture with the community resources and culture perspective, and you create a whole third view."  
   Academic Expert Panel member

Developing Questionnaire Items: Example from Theme 1

<table>
<thead>
<tr>
<th>In Vivo Codes from Key Informant Interviews</th>
<th>Draft Questionnaire Item for Delphi Process</th>
<th>Delphi (Rounds 1-3), Cognitive Interviews, Pilot Testing</th>
<th>Final Item in the MAPS Questionnaire</th>
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</table>
| Where you get to is better than either would've gotten to alone if you just stayed in your own self. Having diverse partners together can accomplish more with less than could separately. Collaboration among diverse partners helps the partnership accomplish its objectives. | B-2. Having diverse community and academic partners together accomplishes more than could be accomplished separately. | Delphi Round 1: Item Deleted for redundancy  
Delphi Round 2: Item Reworded, re-added  
Cognitive Interviews: No change  
Pilot Testing: No change | 76. Working together the partnership accomplishes more than partners could accomplish separately. |

The final partnership synergy measure contained seven items to be included in the MAPS questionnaire.

**MAPS Next Steps**

1. Administer MAPS survey to 55 longstanding (6+ years) CBPR partnerships across the US.
2. Test questionnaire's psychometric qualities (validation) in a sample of long-standing CBPR partnerships;
3. Revise and finalize the questionnaire and model;
4. Develop a mechanism for partnerships to feedback and apply partnership evaluation findings to improve their partnership; and
5. Disseminate the MAPS questionnaire and practical feedback tool in a readily accessible and usable format.

**Publications**


**Detroit Community-Academic Urban Research Center (Detroit URC)**

MAPS is a project of the Detroit URC, a community-based participatory research (CBPR) partnership founded in 1995 to equitably engage community-based organizations, health service institutions and academia to foster research, programs and policies to improve health equity in Detroit.

For more information or to participate in the survey contact, Megan Jensen, MAPS Project Manager at mlaver@umich.edu or (734) 764-6029. Visit our website at: www.detroiturc.org or bit.ly/33GMyq6.