Measurement of Outcomes in Community Engaged Research and Community-Based Participatory Research

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CADC
January 13, 2021
Some Provocative Question

- What is more important, improving a health outcome or improving capacity and increasing trust?
- What should be the outcome of the indirect costs that come to the institution as part of grants?
Traditional Research Outcomes

- Funder report
- Research abstracts
- Research papers
- Follow-up grant applications and awards
- Change in healthy behaviors or quality indicators in the study sample
- Change in health outcomes in the study sample
CEnR and CBPR Outcomes

- Traditional research outcomes
- Proximal outcomes
- Intermediate outcomes
- Long-term outcomes
Research Article

Impact of Participatory Health Research: 
A Test of the Community-Based Participatory 
Research Conceptual Model

John G. Oetzel, Nina Wallerstein, Bonnie Duran, 
Shannon Sanchez-Youngman, Tung Nguyen, Kent Woo, Jun Wang, Amy Schulz, 
Joseph Keawe‘aimoku Kaholokula, Barbara Israel, and Margarita Alegria
Conceptual Model

CBPR Conceptual Model

Adapted from Wallerstein et al., 2008 [15] & Wallerstein et al., 2018 [11], https://cpr.unm.edu/research-projects/cbpr-project/cbpr-model.html
Empirical Test of Model

Figure 2: Empirical test of CBPR conceptual model. Note. Only significant paths (p < or = .01) are displayed.
Proximal Outcome: Partnership Synergy

Scale items and Cronbach’s alphas for measures

(1) Develop goals that are widely understood and supported in this partnership
(2) Develop strategies that are most likely to work for your community or stakeholders as a whole
(3) Recognize challenges and come up with good solutions
(4) Respond to the needs and problems of your stakeholders or community as a whole
(5) Work together as a team

1 (not at all) to 5 (to a great extent)  
0.90
## Intermediate Outcomes:
### Personal Capacity Building

<table>
<thead>
<tr>
<th>Scale items and Cronbach’s alphas for measures</th>
<th>1 (not at all) to 5 (to a great extent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Enhanced my own reputation</td>
<td>0.80</td>
</tr>
<tr>
<td>(2) Increased utilization of my expertise or services</td>
<td></td>
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<tr>
<td>(3) Increased my ability to acquire additional financial support</td>
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</tbody>
</table>
Intermediate Outcomes: Agency Capacity Building

Scale items and Cronbach’s alphas for measures

(1) Enhanced the agencies’ reputation
(2) Enhanced the agencies’ ability to affect public policy
(3) Increased utilization of agencies’ expertise or services

1 (not at all) to 5 (to a great extent) 0.87
Intermediate Outcomes: Sustainability

Scale items and Cronbach’s alphas for measures

(1) I am committed to sustaining the community-academic relationship with no or low funding
(2) This project is likely to continue forward after this funding is over
(3) Our partnership carefully evaluates funding opportunities to make sure they meet both community and academic partners’ needs

1 (strongly disagree) to 5 (strongly agree) 0.71
Long Term Outcomes: Community Transformation and Health Improvement

<table>
<thead>
<tr>
<th>Scale items and Cronbach’s alphas for measures</th>
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<tbody>
<tr>
<td>Community transformation</td>
<td></td>
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<tr>
<td>(1) Resulted in policy changes</td>
<td></td>
</tr>
<tr>
<td>(2) Improved the overall health status of individuals in the community</td>
<td></td>
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<tr>
<td>(3) Resulted in acquisition of additional financial support</td>
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<tr>
<td>(4) Improved the overall environment in the community</td>
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<tr>
<td>Health outcomes: community health improvement</td>
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<tr>
<td>(1) Overall, how much did or will your research project (insert name) improve the health of the community?</td>
<td></td>
</tr>
<tr>
<td>1 (not at all) to 5 (a lot)</td>
<td>0.79</td>
</tr>
<tr>
<td>1 (strongly disagree) to 5 (strongly agree)</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Discussion