# Engaging Communities in Physical Activity Research

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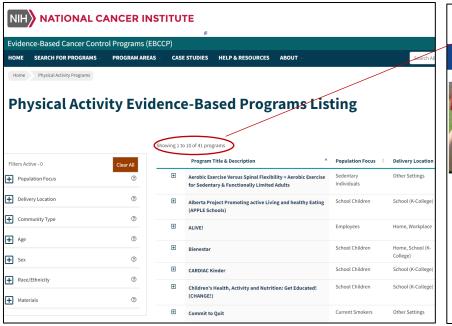
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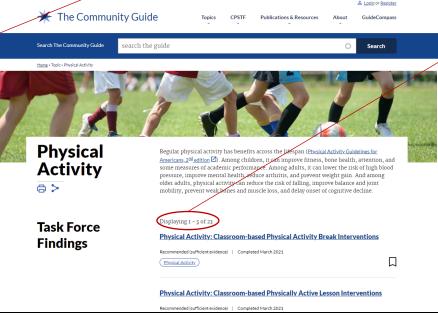
### A Public Health Challenge

- Many evidence-based PA programs & strategies exist
  - NCI Evidence-Based Cancer Control Program (<a href="https://ebccp.cancercontrol.cancer.gov/">https://ebccp.cancercontrol.cancer.gov/</a>)

41 programs

 The Community Guide (<a href="https://www.thecommunityguide.org/topic/physical-activity">https://www.thecommunityguide.org/topic/physical-activity</a>)





23 programs/strategies (17 recommended)

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## A Public Health Challenge.....

- Do our interventions work in community settings?
  - Do they have a public health impact?
- Are our interventions even feasible/ appropriate/desired in community settings?
- How well do our interventions translate to the community and ultimately get disseminated for wide uptake (scale up)?
  - Adaptations?
  - Rarely done!



## A Public Health Challenge - Disconnect!

- Researchers:
  - "I'm focused on generating evidence"
  - "It's not my responsibility"
  - "I don't know how to get program uptake"
  - (Survey by Ross Brownson et al, 2013, Am J Public Health)
- Community Practitioners & Policy Makers:
  - "These interventions/programs/policies aren't feasible"
    - Cost, time, staffing skill set, complexity, fit with organization operations, fit with unique community characteristics
  - (Call for more pragmatic trials: Russ Glasgow, 2013, Health Educ Behav)

## Community Engagement is a Way to Help Bridge This Disconnect

- Engaging people within communities
- Engaging community leaders
- Engaging practitioners who deliver interventions in communities





## **But First...What is a Community?**





## What is a Community?

- Functional spatial units meeting basic needs for sustenance (geography based)
- Units of patterned social interaction (based on social affiliation)
- Symbolic units of collective identity (based on interests, attitudes, goals, etc)



## What is Community Engagement?





## What is Community Engagement?

• "the *process* of working collaboratively with groups of people who are affiliated by geographic proximity, special interests, or similar situations with respect to issues affecting their wellbeing." (CDC, 1997)

• It is not simply "community-placed" (Wallerstein et al., 2018)



## **Continuum of Community Engagement**

#### Increasing Level of Community Involvement, Impact, Trust, and Communication Flow

#### Outreach 1 4 1

#### Some Community Involvement

Communication flows from one to the other, to inform

Provides community with information.

Entities coexist.

Outcomes: Optimally, establishes communication channels and channels for outreach.

#### Consult

#### More Community Involvement

Communication flows to the community and then back, answer seeking

Gets information or feedback from the community.

Entities share information.

Outcomes: Develops connections.

#### Involve

#### Better Community Involvement

Communication flows both ways, participatory form of communication

Involves more participation with community on issues.

Entities cooperate with each other.

Outcomes: Visibility of partnership established with increased cooperation.

#### Collaborate

#### Community Involvement

Communication flow is bidirectional

Forms partnerships with community on each aspect of project from development to solution.

Entities form bidirectional communication channels.

Outcomes: Partnership building, trust building.

#### Shared Leadership

#### Strong Bidirectional Relationship

Final decision making is at community level.

Entities have formed strong partnership structures.

Outcomes: Broader health outcomes affecting broader community. Strong bidirectional trust built.

Reference: Modified by the authors from the International Association for Public Participation.

Figure 1.1. Community Engagement Continuum



## **Principles of Community Engagement**

- Before engagement:
  - 1. Be clear about goals & purpose
  - 2. Learn about the community
- Necessary ingredients for engagement:
  - 3. Establish relationships, build trust, and seek commitment
  - 4. Community self-determination
    - Control & ownership
    - Definition of problems & potential solutions

- For engagement to succeed:
  - 5. Partner with community
    - Equity, transparency, colearning, joint responsibility and concern for outcome
  - 6. Respect diversity in the community
  - 7. Identify & mobilize community assets & strengths / develop community capacity & resources
  - 8. Release control & be flexible
  - 9. Make a long-term commitment



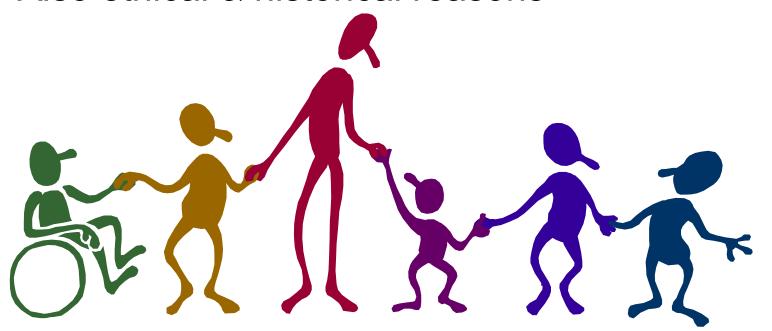
## Why (Engage Communities)?





## Why (Engage Communities)?

- Many reasons....but potential to translate/disseminate/"scale up" may be greatest public health "why?"
  - Key component of Designing for Dissemination (Kwan et al., 2022)
- Also ethical & historical reasons





## **Appeal of Engaging Community Organizations**

- Often know community needs, interests, & beliefs
  - Assets & challenges
- Often know how to reach people
- Potential to reach more diverse populations
  - Health disparities
- Way to embed programs into existing programs & events
  - Sustainability



## Community-Based Participatory Research (CBPR)

- Approach that actively engages communities in the entire research process
- Community and university partners both bring expertise to the table and work in partnership to address a public health issue
- Ways CBPR differs from
  - "traditional" research?
  - community-placed research?



### **Key Principles of CBPR** (Israel et al., 2018)

- Recognizes community as a unit of identity
- Builds on strengths & resources
- Facilitates collaborative, equitable partnerships in all phases of research
  - Empowering & power-sharing process
- Promotes co-learning & capacity building among all partners
- Seeks to achieve balance between research and action

- Emphasizes public health problems of local relevance & ecological perspectives to attend to multiple determinants of health and disease
- Involves systems development through cyclical & iterative process
- Disseminates findings and knowledge gained and involves partners in dissemination
- Requires a long-term process & commitment to sustainability
- Advances issues of race, ethnicity, racism, & social class & embraces "cultural humility"



## How We Used a CBPR Approach in Faith-Based Setting

Faith Activity Utrition

- Co-wrote grant
  - Delayed intervention group deemed ok if full intervention was received in the end
- Church-level investigators received compensation
- Transparency in budget & how funds used
- Built in a full year of planning meetings
- Strove for consensus during meetings

- Listened!
  - University learned about church operations
  - Church learned about research/evaluation process
- Capacity
  - Church committees trained to deliver intervention
- Church co-authors on papers
- Study findings written up in lay format & shared widely

**Public Health** 

 Collaboration continues w/ AMEC
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## What are Some Challenges to Community Engagement?

Researchers?



Communities/Practitioners?





## Common Challenges...

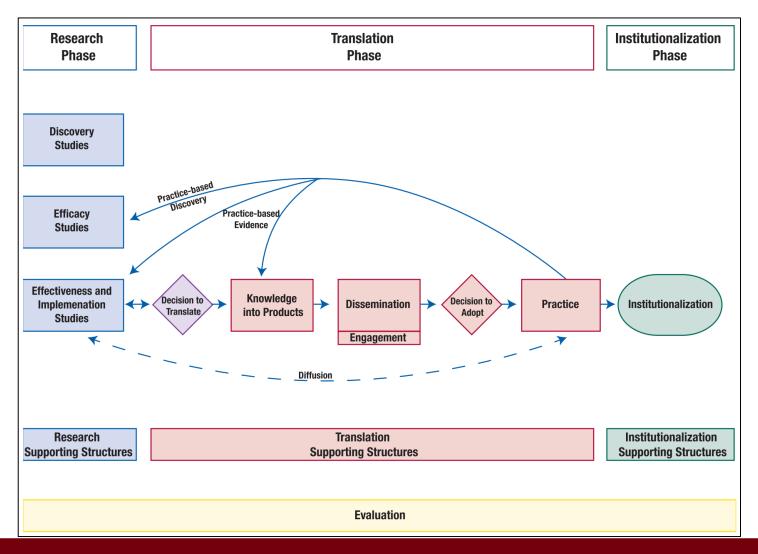


- Differing priorities
- Communities are fluid
  - Expect transitions in leadership
- Communities have different perspectives and opinions
  - Political struggles
- Evaluation component often not as interesting as intervention
  - Evaluation must be meaningful to organization (lay reports, etc)

- Can be hard to keep up momentum & engagement
- By definition, flexible IRBs sometimes not (and researchers sometimes not!)
- Time consuming & long-term commitment
  - NIH and other funding cycles
  - Tenure & promotion clock



## CDC's K2A (Knowledge to Action) Model Identifies Places for Stakeholder Involvement



CDC, 2014.

https://www.cdc.gov/chronicdisease/pdf/K2A-Framework-6-2015.pdf.



#### **Efficacy Trials**

Efficacy: The extent to which the intended effect or benefits were achieved under optimal conditions.

#### Questions for those persons responsible for

Implementing **Evaluating** Intervention Developing or Testing V Have practitioners or potential Given this role's focus on Does the intervention being Given this role's focus on implementers been included in the deciding or influencing which tested appear feasible for measuring the activities, development of this intervention? intervention an organization implementation? effects, and effectiveness of or staff will use, this role will implementation, this role will Have potential recipients of the Would the intervention be more involved and active be more engaged and involved intervention been included in the being tested resonate with in other elements of the K2A in other elements of the K2A development of this intervention. your constituents? framework. For Practice-based Discovery or Is the intervention theory-based? Evidence What does science tell us about interventions like this? Have similar Do we have data about fieldstrategies been found to be effective? based practices that require additional research? Will it be feasible to establish widespread implementation supports » Who can fund or (e.g., manuals, training, coaching, conduct that research? technical assistance) for those who want to implement this intervention if it is found to be effective? Are developers, researchers, and other key stakeholders committed to the intervention and stable in their roles to help ensure consistent data collection and sustained interest? Are the resources required to deliver the intervention feasible in real-world settings?

Have practitioners or potential **implementers** been included in the development of this intervention?

Have potential recipients of the intervention been included in the development of this intervention?

Does the intervention being tested appear feasible for implementation?



## **Some Suggested Readings**

- Wallerstein N, Duran B, Oetzel J, Minkler M, (Eds). Community Based Participatory Research for Health, 3rd edition. San Fransisco: Jossey-Bass 2018.
- Clinical and Translational Science Awards Consortium Community Engagement Key Function Committee
  Task Force on the Principles of Community Engagement. Principles of Community Engagement, 2<sup>nd</sup>
  Edition. 2011. Available: <a href="http://www.atsdr.cdc.gov/communityengagement/">http://www.atsdr.cdc.gov/communityengagement/</a>.
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- Ortiz K, Nash J, Shea L, Oetzel J, Garoutte J, Sanchez-Youngman S, Wallerstein N. Partnerships, processes, and outcomes: A health equity–focused scoping meta-review of community-engaged scholarship. *Annu Rev Public Health*. 2020;41(1):177-199.
- Wilson KM, Brady TJ, Lesesne C, NCCDPHP Work Group on Translation. An organizing framework for translation in public health: the Knowledge to Action Framework. *Prev Chronic Dis.* 2011;8(2):A46.
- Centers for Disease Control and Prevention. Applying the Knowledge to Action (K2A) Framework:
   Questions to Guide Planning. 2014. Available: <a href="https://www.cdc.gov/chronicdisease/pdf/K2A-Framework-6-2015.pdf">https://www.cdc.gov/chronicdisease/pdf/K2A-Framework-6-2015.pdf</a>. Accessed May 19, 2018.



## Thank You!

