Developing a Partnership to Facilitate Community Engaged Research in Diagnostic Imaging
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Disclosures

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Significance

Community involvement in research increases both the quality and relevance of the research.¹

Scientific discoveries are best translated into improvements in individual and population health when community members are involved at all stages of research.²

There is a paucity of research on how to engage the community in diagnostic imaging research.


Purpose

We aim to map the development of a partnership facilitating community engaged research in diagnostic imaging at our institution. This process map can serve as a roadmap for others to follow.

The partnership in this example developed a proposal to increase screening mammography utilization with the assistance of a community health worker (promotora).
What was done

1. Identify community partner with shared interests.

Academic Partner:
- Breast Imaging Radiologist
- Health Services Researcher with interest in improving screening mammography utilization

Community Partner:
- MidSouth Division of ACS
- Community based health organization
- Dedicated to eliminating cancer as a major health problem
### What was done

**2. Develop Give/Get Grid.**

<table>
<thead>
<tr>
<th></th>
<th>Gives</th>
<th>Gets</th>
</tr>
</thead>
</table>
| **Academic Partner**   | • Clinical Expertise  
                          – Medical understanding of screening mammography  
                          – Screening mammography process/history information  
                          – Understanding of breast density and other risk factors  
                          • Research Expertise  
                          – Understanding of Patient Preferences in Breast Imaging Health Providers  
                          – Access to Preliminary Data of Patient Understanding of Breast Density Reporting  
                          • Time/Medical Expertise as a Speaker at Local Events  
                          • Student/Resident Volunteer Time | • Build Community Relationships with Local Stakeholders Involved with Mammography Patients  
                          • Gain Interdisciplinary Experience with Community Stakeholders  
                          • Regional/National Recognition in Improving Utilization of Mammography in the Underserved Populations  
                          • Develop Ideas for Community/Patient Centered Mammography Research  
                          • Potential for Interdisciplinary Extramural Funding  
                          • Improved Grant Writing Skills |
| **Community Partner**  | • Access to Medically Underserved Mammography Populations  
                          • Access to Screening Mammography Community Stakeholders  
                          • Meeting Space |                                                                      |
What was done

3. Define overall partnership mission and aim.

Mission:
The purpose of this partnership is to foster relationships amongst community partners united by the fight against breast cancer.

Aim:
We aim to identify barriers community partners face in facilitating screening mammography in the medically underserved population and to collectively identify resources to enhance the existing efforts of the community partners.
What was done

4. Partnership develops preliminary community-centric intervention and proposed timeline.

**Preliminary intervention:** Increase screening mammography use in local Hispanic community using Promotora** model.

**Promotora** – lay Hispanic/Latino community health worker

<table>
<thead>
<tr>
<th>PROPOSED TIMELINE (by month)</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>---</td>
</tr>
<tr>
<td>Explore Research Interests</td>
</tr>
</tbody>
</table>
What was done

5. Engage additional community stakeholders to refine the research approach.
What was done

6. Host Community Engagement Studio\textsuperscript{4} to further refine the proposal.
   - 12 Latino community members (men and women)
   - Presented with proposal and asked for feedback

Bilingual services for follow-up and treatment.

To connect even more with the Latino community would be great. Meaning find resources to improve participation.

Be clear in what is being offered and required. Also, be clear that they shouldn’t sign anything they don’t understand.


If results come back positive, what next? Show that there is support and money to pay.

What was done

7. Revise proposal with community feedback.

The Promotora Navigator – Assessing the Impact of a Culturally Appropriate Patient Navigator for Screening Mammography and Follow-Up

CONTROL ARM
screening without Promotora

INTERVENTION ARM
screening with Promotora

Assess differences in trust, communication, satisfaction

Community benefit – ALL participants (control and intervention) are Hispanic women not currently engaged in screening mammography who will receive well woman screening at no cost
What was done

8. Develop infrastructure mechanisms for the partnership to facilitate ongoing research.
   - Grant Writing Workshop (community partner and stakeholders attend)

9. Apply together for next step grant funding.
   Initially – applied successfully for internal funding

Once pilot data collected, will apply for extra-mural funding
<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify Community Partner</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Develop Give Get Grid</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Define partnership mission</td>
<td>X</td>
<td></td>
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<tr>
<td>Define preliminary intervention</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Identify Community Stakeholders</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Engage Community Stakeholders</td>
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<td>X</td>
<td></td>
</tr>
<tr>
<td>Community Engagement Studio</td>
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</tr>
<tr>
<td>Revise intervention with</td>
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<tr>
<td>community input</td>
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<td></td>
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<tr>
<td>Grant writing/workshop</td>
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<td>X</td>
<td></td>
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<tr>
<td>Protocol development/survey</td>
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<td>X</td>
<td></td>
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<tr>
<td>item development</td>
<td></td>
<td></td>
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<tr>
<td>IRB preparation and approval</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Initiate recruitment</td>
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<td></td>
<td>X</td>
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</tbody>
</table>
Outcome

Process Map for Developing a Community Engaged Research Proposal in Diagnostic Imaging

1. Develop Academic/Community Partnership
   - Identify CP
   - Interests Match?
     - YES: Develop Give And Get Grid
     - NO: Develop Prelim Intervention

2. Engage Community Stakeholders
   - Engage CS
   - Does Intervention meet CS Needs?
     - YES: CE Studio for Feedback
     - NO: Meet with CS/CP to revise
   - Does revised intervention meet CS/CP needs?
     - YES: Disseminate results
     - NO: Start

3. Facilitate Continuous Community Involvement in Research Process
   - Grant writing/submission
   - Protocol development/IRB submission
   - Recruitment/Study implementation
   - Data Analysis

CP - Community Partner
CS - Community Stakeholder
CE Studio - Community Engagement Studio
Start - Decision - Tangible - Task - Goal

Pathway to future projects
Conclusion

Engaging the community in the development of research proposals can strengthen the research design and impact.

Community engaged research requires time, resources, and open communication.

The developed process map can serve as a roadmap to facilitate community engaged research in diagnostic imaging.