(Dissemination and) Implementation Science for Global Cancer Control

BHGI Summit 2018
Day 3

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## Implementation science outcomes

<table>
<thead>
<tr>
<th>Program Outcomes</th>
<th>Definition</th>
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<tbody>
<tr>
<td><strong>Acceptability</strong></td>
<td>Is this choice acceptable to providers and patients?</td>
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<tr>
<td><strong>Adoption</strong></td>
<td>Will health systems use this screening strategy?</td>
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<tr>
<td><strong>Appropriateness</strong></td>
<td>Does this choice seem compatible with the setting?</td>
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<tr>
<td><strong>Reach</strong></td>
<td>How many women can access this option?</td>
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<tr>
<td><strong>Feasibility</strong></td>
<td>Can this choice work given the resources and infrastructure available? Key role in early adoption process.</td>
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<tr>
<td><strong>Fidelity</strong></td>
<td>Can we use this choice as it has been used elsewhere? *The degree to which an intervention is delivered as intended (and thus moderators an intervention’s impact on outcomes)</td>
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<tr>
<td><strong>Incremental implementation cost</strong></td>
<td>How much more expensive is the choice?</td>
</tr>
<tr>
<td><strong>Penetration</strong></td>
<td>Will all the health posts/systems use this choice?</td>
</tr>
<tr>
<td><strong>Sustainability</strong></td>
<td>Can we sustain this strategy over time? How dependent on international cooperation, donations, etc?</td>
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Stakeholders are a key feature

Stakeholder Engagement Process

Identify Stakeholders
- Identify stakeholder groups
- Identify individual stakeholders representatives
- Create initial stakeholder list

Outputs
- Stakeholder List
- Stakeholder Map
- Engagement Grid
- Updated Stakeholder List

Stakeholder Assessment
- Conduct high-level stakeholder assessment
- Prioritise stakeholders
- Develop stakeholder map

Plan Communication
- Create Stakeholder Communications Planning Sheet
- Identify engagement activities
- Develop detailed engagement plans

Engage Stakeholders
- Maintain plan to support ongoing engagement activities
- Execute stakeholder communication plan
- Monitor progress

- Updated Stakeholder Communication Plan
- Communication and engagement activities
- Feedback mechanisms implemented

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Structural mapping of stakeholders

Targets
• Women in the community, breast cancer patients/survivors, and community health

Providers
• District to regional healthcare providers from traditional healers to nurses, physicians, laboratory specialists, oncologist

Leaders
• Key policy stakeholders including representation from the regional health ministry and international partners focused on cancer control

• Ensure equitable and complete coverage of stakeholders in key working groups.
• Include KWG’s in more than one aspect of research and implementation development.
• Representation from each KWG’s will attend mid-study retreat for data review/strategy selection
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**Alignment, Interest and Influence Matrix**
Helps to clarify where intervention/strategy main policy audiences and targets stand in relation to the project objectives and the possible influencing approaches.
Strategic Implementation Framework

- Setting the Stage
- Active Implementation
- Monitor, Support, Sustain

Special Series: Quality Care Symposium

Leveraging Implementation Science to Improve Cancer Care Delivery and Patient Outcomes

Sandra A. Mitchell and David A. Chambers

Implementation science is focused on understanding and accelerating the integration of research findings and research-based innovations into everyday practice settings to improve health. Here, we highlight the body of implementation science knowledge needed across the cancer care continuum, discuss selected theories and outcome measures drawn from implementation science, propose a framework for strategic implementation using the Expert Recommendations for Implementing Change (ERIC)^1^2, and assistance of efficacy are generally not designed to customize an intervention for use in routine practice, confirm the nature and extent of intervention adaptation that is permissible while preserving efficacy, or address sustainability of the intervention in routine practice settings. Although cancer care delivery research has been proposed as an emerging research focus to address these gaps, cancer care delivery research efforts to date seem insufficiently informed by implementation science theories and methods.3,4
Typical D&I Study Designs

- **Mixed-methods designs** – collection and analysis of quantitative and qualitative data in a single study to answer questions in parallel or sequentially, often iteratively.

- **Pragmatic trials** – test interventions in real-world settings that include (rather than exclude) population and practice heterogeneity, broad range of outcomes, and mediators and moderators of the D&I process.

- **Natural experiment** – naturally occurring circumstances in which subsets of the population have different levels of exposure (intervention) – rather than randomized.

- **Hybrid designs** (3) – take on a dual focus within one study to assess clinical effectiveness and implementation.
Complete D&I Science working model

- Dissemination Strategies
- Evidence-based Intervention
- Implementation Strategies
- Dissemination Outcomes
- Implementation Outcomes
- Service System Outcomes
- Individual, Policy, and Population Health Outcomes
A Systems Approach

• In addition to healthcare being structurally complex, the reality is that cancer and cancer control result from an interplay of factors:
  • policy
  • economic
  • environmental
  • social
  • behavioral
  • physiological

If we’ve learned anything, it’s that single, isolated interventions aren’t efficient and sustainable.

Especially in LMIC’s, we must consider the entire “system” in which cancer develops and in which interventions must be integrated.
Resources for ISR

**Building Models and Momentum: Predicting the Impact of Tobacco Control Policies**
- September 2017
- Presenter(s): Dr. Rafael Meza, Jamie Tam, Jessica Yamauchi, Lila Johnson
- Category: Research to Practice

**September 2017: Advancing Global Implementation Science at the National Institutes of Health**
- September 2017
- Presenter(s): Dr. Christopher Gordon, Dr. Cynthia Vinson, Dr. Rachel Sturke
- Category: Priority Topic

**July 2017: A Campfire Conversation about the Sustainability of Health Interventions**
- July 2017
- Presenter(s): Dr. James W. Dearing, Dr. Shannon Wiltsey Stirman
Thank you!
Merci!
Gracias!
Asante Sana!

Feel free to contact me at arositch@jhu.edu