Implementation Science Intro

Paul A. Estabrooks, PhD

Twitter: @paul_estabrooks
Email: paul.estabrooks@unmc.edu
What is implementation science?

http://kirstyevidence.wordpress.com/2014/09/06/implementation-science/
Research to Practice Pathway

Pre-Intervention
- Feasibility and pilot trials

Efficacy Trials
- Randomized Control Trials (RCTs)

Effectiveness Studies
- Adaptation to real world settings

Dissemination & Implementation

Scalability
Sustainability
Implementation
Adaptation

Research to Practice Pathway
**Glossary of Terms**

<table>
<thead>
<tr>
<th>Evidence-based interventions</th>
<th>Dissemination</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Interventions that have undergone sufficient scientific evaluation to be considered effective</td>
<td>• Targeted distribution of information and intervention materials to a specific public health or clinical audience</td>
<td>• Strategies to use or adapt evidence-based interventions within specific settings to improve population health</td>
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</tbody>
</table>

Defining implementation science

• The study of methods to promote the integration of research findings and evidence into healthcare policy and practice.

• Focused on the adoption or uptake of evidence-based interventions by delivery agents and clinical or community organizations.
Where is implementation science on the translational spectrum?

Khoury et al., 2009
Model Categories

Construct Flexibility (CF)

1: Broad
Loosely outlined and defined constructs; allows researchers greater flexibility

2

3

4

5: Operational
Detailed, step-by-step actions for D&I research

Dissemination and / or Implementation (D/I)

D only
Focus on active approach of spreading EBIs to target audience via determined channels using planned strategies

D > I
Equal focus on dissemination and implementation

D = I

I > D
Focus on process of putting to use or integrating evidence-based interventions within a setting

I only

Socio-ecological Framework (SEF)

System: Hospital system, government

Community: Local government, neighborhood

Organization: Hospitals, service organizations, factory

Individual: Personal characteristics

View All D&I Models

The list of all D&I Models and their characteristics. You can compare up to five models by selecting the check box next to the model name. Additional information on each model can be found by clicking on the Description link under each Model name.

<table>
<thead>
<tr>
<th>Model</th>
<th>D &amp;/or I</th>
<th>Construct Flexibility</th>
<th>Socio-Ecological Levels</th>
<th>Field of Origin</th>
<th># Times Cited</th>
<th>Rating</th>
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<tbody>
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</table>

Compare Models  Restore Full List
Hybrid Type 1: test clinical/prevention intervention, observe/gather information on implementation

Hybrid Type 2: test clinical/prevention intervention + implementation strategy

Hybrid Type 3: test implementation strategies, observe/gather information on clinical/prevention outcomes