Application of Implementation Science Frameworks to Guide Intervention Design

Part 1: Overview of Implementation Frameworks and Theories

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Behavioral approach to evidence translation

- Implementation depends on stakeholder behavior

- Improving the quality of healthcare requires changing behavior

- Changing behavior requires
  - Understanding determinants of current behavior
  - Understanding how behavior changes
Logic Model

Implementation Strategy

Personal Determinants

Behavioral Factors

Environmental Factors

Evidence Uptake

Quality of Healthcare

Societal
Community
Organizational
Interpersonal
GET ALL THE INFORMATION YOU CAN, WE'LL THINK OF A USE FOR IT LATER.
Process Model Example: CIHR Knowledge Translation Model
Process Model Example: Knowledge to Action Framework for Public Health
Process Models = Planned Health Promotion

Step 1: Analysis of health and/or quality of life problem
Step 2: Selection of appropriate evidence related to problem
Step 3: Analysis of behavioral/environmental risk factors
Step 4: Analysis of determinants of risk
Step 5: Adaption evidence/design of implementation strategy to target key determinants
Step 6: Evaluation of implementation
Implementation models/frameworks

- **Determinant Frameworks** (CFIR, PARIHS, etc.)
  - Specify determinants which act as barriers and enablers that influence implementation outcomes
  - AIM: Understand or predict implementation outcomes

- **Classic Theories** (Social Cognitive Theory, Theory of Planned Behavior, etc.)
  - Identify factors that help explain or understand implementation
  - ORIGIN: External to implementation science

- **Implementation Theories** (COM-B, Organizational Readiness, etc.)
  - Identify factors that help explain or understand implementation
  - ORIGIN: Developed by implementation researchers

## Implementation Theories/Frameworks: Alternate Classification

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<tr>
<th>Application</th>
<th>Selected Examples</th>
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<tbody>
<tr>
<td></td>
<td>Classic Theories, COM-B/TDF</td>
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<tr>
<td>Identifying barriers/enablers</td>
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<td>Designing an implementation strategy</td>
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<td>Assessing implementation context</td>
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TDF: Theoretical Domains Framework; BCW: Behavior Change Wheel; CFIR: Consolidated Framework for Implementation Research; PARIHS: Promoting Action on Research Implementation in Health Services