Implementation: Toolkit Required

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Objectives

• Describe implementation phase of the EBP Process.
• Review implementation theories/models that have emerged to guide evidence-based quality improvement.
• Discuss the importance of aligning implementation strategies with phases of the change process will be highlighted.
• Introduce a newly developed instrument for assessing self-efficacy related to EBP implementation strategies.

EBP Implementation Strategies Self-Efficacy Scale

• Please take a few minutes to complete the scale at the following link
  – http://go.osu.edu/implementation-self-efficacy-scale
  – In the links box in the webinar room too
• There is a PDF of the scale in the file folder for your review
• We will share feedback about how this group scored toward the end of the webinar
Scoring

- Add all item scores and divide by 29 to provide overall average item response
- Note where your items had the lowest self-efficacy
- Note where your items had the highest self-efficacy
- Notes items can be targets for change
What Is Implementation as it Relates to EBP?

• Using a series of action steps to put into effect the decision to change.
• Implementation of evidence-based practice (EBP) is regarded as core competence to improve healthcare quality.
• Implementation step of EBP is the most challenging
Implementation of EBP Across Disciplines

- Weng et al. (2013) investigated the EBP practices of six groups of professionals (n=6160)
  - Physicians (n=645)
  - Nurses (n=4206)
  - Pharmacists (n=430)
  - Physical therapists (n=179)
  - Technicians (n=537)
  - Other allied healthcare personnel (n=163)


What is Implementation Science?

- The scientific study of methods to promote the systematic uptake of research findings and other EBPs into routine practice to improve the quality and effectiveness of health services and care.

Where and Why Did Implementation Science (IS) Emerge?

• Borne out of a desire to address challenges associated with the use of research to achieve more evidence-based practice (EBP) in health care and other areas of professional practice
• Cited gap ……..
• Need to establish the theoretical bases of implementation and strategies to facilitate


Research to Practice Gap

…..and this is for the 14% that make it


Practice Gap Examples


Terminology Challenges

- Implementation is part of a diffusion-dissemination-implementation continuum.
  - Diffusion – the passive, untargeted and unplanned spread of new practice
  - Dissemination – the active spread of new practices to a target audience using planned strategies
  - Implementation – the process of putting to use or integrating new practices within a setting

What is Translation?

- The process of turning observations in the laboratory, clinic and community into interventions that improve the health of individuals and the public — from diagnostics and therapeutics to medical procedures and behavioral changes.

NIH National Center for Advancing Translation Science.
https://ncats.nih.gov/translation/spectrum
What is Translation Science?

• The field of investigation focused on understanding the scientific and operational principles underlying each step of the translational process.


Translational Science Spectrum


Theories, Models & Frameworks in Implementation Science


Determinants Framework


Classic Theories

The law of diffusion of innovation


The Adoption – Decision Process

Everett Rogers

Knowledge

Persuasion

Decision

Implementation

Confirmation

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Aims:
• Identify most commonly reported organizational contextual factors that influence the implementation of evidence-based practices across healthcare settings
• Describe how these factors affect implementation

Systematic Review - Li, Jeffs, Barwick & Stevens (2018)

• January 2005 – June 2017
• Used Mixed Methods Appraisal Tool
• 36 studies, 20 qualitative, 11 quantitative, 5 mixed methods
• 6 factors were most commonly reported
• These are interrelated and influence each other
Systematic Review - Li, Jeffs, Barwick & Stevens (2018)

6 Factors
- Organization culture
- Leadership
- Networks and communication
- Resources
- Evaluation, monitoring and feedback
- Champions

Consolidated Framework for Implementation Research (CFIR)

Determinants Framework

Implementation Strategies for Promoting Change

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Expert Recommendations for Implementing Change (ERIC) Project

- ERIC study aimed to refine a published compilation of implementation strategy terms and definitions by systematically gathering input from a wide range of stakeholders with expertise in implementation science and clinical practice.
- Expert panel reached consensus on a final compilation of 73 implementation strategies.

Determinants Framework

Evidence-Based Practice In Action: Implementation Guide

Often we underwhelm overwhelming problems

**Solution**

- Combine at least 4 or more sources of influence

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**Table 2: Influencers of Change in Different Clinical Areas**

| Source of Influence | Action 
|---------------------|-------
| Planning Phase | Promoting Organizational Values for Nurse Aides | Promoting Organizational Values for Adult Patients
| Teaching, Training, and Sustaining | Strengthening Organizational Values for Nurse Aides | Strengthening Organizational Values for Adult Patients
| Building Knowledge and Competence | Model Change in Practice | Model Change in Practice
| Protestant Action and Ethics | Implement Accountability for Innovation | Implement Accountability for Innovation
| Harness Peer Pressure | Find Strength in Numbers | Find Strength in Numbers
| Make the Undersea, Visible and Clear | Helping Them Sustain Their Limits | Helping Them Sustain Their Limits

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**Influencing Change**

All Washed Up -
https://www.youtube.com/watch?v=osUwukXSd0k

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**Influencer: The New Science of Leading Change**

Organizational Readiness

Organizational Readiness

Context Assessment Index

- McCormack et al. 2009
- Used the Promoting Action on Research Implementation in Health Services Framework
- The framework shows the successful implementation of evidence in practice as dependent on the inter-relationship of the nature of the evidence, the quality of the context, and expert facilitation.
- Tested the psychometric properties of the Context Assessment Index (CAI)
