A new interactive tool to iteratively guide users through the process of applying an implementation science framework: The iPRISM webtool

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Goals for this presentation

• Describe the iPRISM webtool
  • Purpose
  • How it was developed
  • Function
  • Future directions

www.prismtool.org
The impetus

- Implementation science
  - Is needed for translation
  - Theories, Models, and Frameworks are the cornerstone
  - Can be complex

Acknowledgment: Amy Huebschmann
iPRISM webtool

• Simplify implementation science
  • For diverse researchers and implementation teams
  • Support rapid learning health systems

• Using the PRISM framework
  • Practical, Robust Implementation and Sustainability Model

Trinkley et al. Acad Med. 2022;97:1447
Rabin et al. Imp Sci. 2022;17:62
PRISM

- Practical, Robust Implementation and Sustainability Model
- Comprehensive framework
- Contextually expanded *RE-AIM outcomes

*RE-AIM – reach, effectiveness, adoption, implementation, and maintenance
iPRISM webtool

- **Guide and prompt users to iteratively**
  - Assess context
  - Align project with context
  - Assess progress on key outcomes
  - Develop feasible and impactful strategies/adaptations
  - Create action plans

- **Systematic, consistent approach**

McCreight M et al. Front Health Serv. 2022;2:970409
User-centered methods

- Transdisciplinary design team
  - 3rd party web developer
  - Implementation science, human computer interaction
- Iterative partner engagement
  - >20 individuals and teams
  - English and Spanish speakers
  - Diverse settings, users and programs
  - With and without implementation science expertise
- Used prototypes of varying fidelity
- Refined
  - Purpose, interface, flow
  - Assessment questions – Makes PRISM actionable

What is the Stage of Your Program?

I am...

... planning a program

... implementing a program

... sustaining a program
21 assessment questions

• Operationalize PRISM’s context domains and outcomes

• Prioritize equity
  • Representation of perspectives
  • Representativeness of outcomes

www.prismtool.org
RE-AIM Program Outcome Assessment

How likely is it that...

1a. ...Heart Failure CDS Program will be ADOPTED by a high percentage of the intended settings?

1b. ...Heart Failure CDS Program will be ADOPTED by settings with few resources and that serve socially and economically disadvantaged populations?
PRISM Context Assessment

How well does your program, as currently planned, align with the...

1. ...expectations/perspectives of the PATIENTS and/or COMMUNITY MEMBERS?
   - [Not aligned] [Very aligned]
   - Add notes here.

2. ...expectations/perspectives of the ORGANIZATIONAL (setting) PARTNERS?
   - [Not aligned] [Very aligned]
   - Add notes here.
Graphical display of responses

RE-AIM Scores
Below are your average scores to the 2-4 questions in each category.
Hover over each category to view details for individual questions.

PRISM Scores
Below are your individual scores for the 1 question in each category.
Hover over each category to view details for individual questions.

*For individuals
Graphical display of responses

**RE-AIM Scores**

Below are your average scores to the 2-4 questions in each category.

- Hover over each category to view details for individual questions.

**PRISM Scores**

Below are your individual scores for the 1 question in each category.

- Hover over each category to view details for individual questions.

Quickly identify areas to improve misalignment and impact
Graphical display of responses

RE-AIM Scores
Below are your average scores to the 2-4 questions in each category.
Hover over each category to view details for individual questions.

PRISM Scores
Below are your individual scores for the 1 question in each category.
Hover over each category to view details for individual questions.

View alternative displays of your results
Implementation strategies/adaptations

- Identify
- Rate
- Prioritize
Identify Your Strategies

Strategy 1: Please name your strategy

Strategy 2: Please name your strategy

Click here for possible RE-AIM strategies
Identify Your Strategies

Strategy 1: Audit and feedback

Strategy 2: Integrate within clinician workflow
Rate Your Strategies

Audit and feedback

Feasibility
- Not Feasible
- Very Feasible

Impact
- No Impact

Integrate within clinician workflows

Feasibility
- Not Feasible
- Very Feasible

Impact
- No Impact

*Equitable/representativeness of impact*
Prioritize strategies

- **Audit and Feedback**
  - Integrate within clinician workflows

The **best** strategies to implement are in the upper right corner.

These are low impact, but likely to be implemented.
Other features

• Action plan template

• Embedded education - tailored to different audiences/expertise
  • Video
  • Examples
  • Links out
  • Info buttons
  • Quick start guides

• Ability to export results
  • Individuals
  • Teams
Use to date

Accessed 2,776 times

48 states

31 countries

Examples of projects:

- FQHC partnership for social needs documentation
- Global pediatric sepsis deterioration
- Physical therapy EHR alert
- Total worker health occupational safety

Languages:
- English
- Spanish
Future directions

Refine and update
-User testing

Evaluate use and impact
-Different conditions, varying facilitation
Thank You!

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