

# Implementation outcomes: an overview

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# Acknowledgement of Country

I would like to acknowledge the Traditional Custodians of the lands on which we meet today. I pay my respects to Elders past, present and emerging.



'Heart of a Child' – artwork by Worimi artist, Lara Went.



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# Objectives of the webinar

- Provide an introduction to implementation outcomes
- Highlight resources to support the selection of measurement tools
- Provide examples of implementation outcome measurement (via subsequent presentations)



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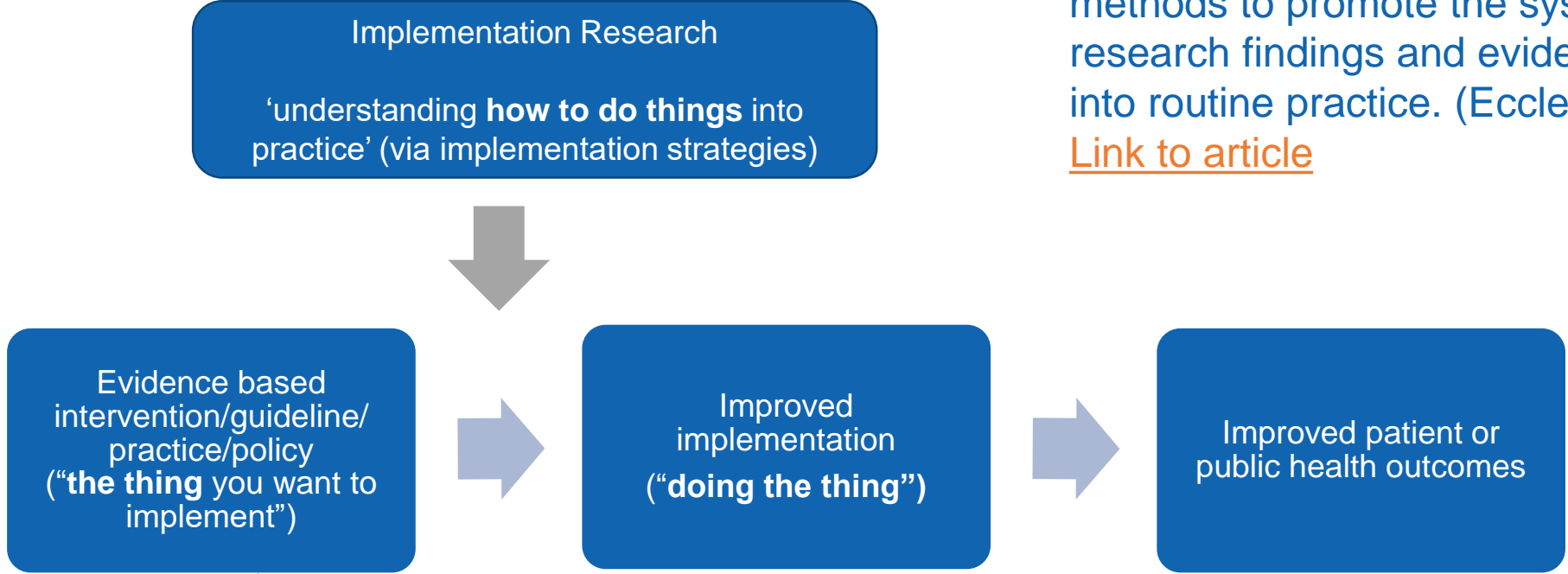


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# What is Implementation Research?

Implementation science is the scientific study of methods to promote the systematic uptake of research findings and evidence-based practice into routine practice. (Eccles & Mittman)

[Link to article](#)



# Is Implementation Science something new?

## Familiar Concepts

- Formative Research
  - Contextual Assessment
  - Stakeholder Engagement
- Theory-Driven Intervention
- Process Evaluations

## New(er) Concepts

- Linking implementation outcomes to health outcomes
- Focus on testing manipulations to implementation process
- Comparing implementation approaches on fidelity, costs, sustainability, etc.

Swindle, T., Curran, G. M., & Johnson, S. L. (2019). [Link to article.](#)



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Acknowledgement: slides from A/Prof Taren Swindle – presentation to the Society for Nutrition Education and Behaviour



# Implementation outcomes

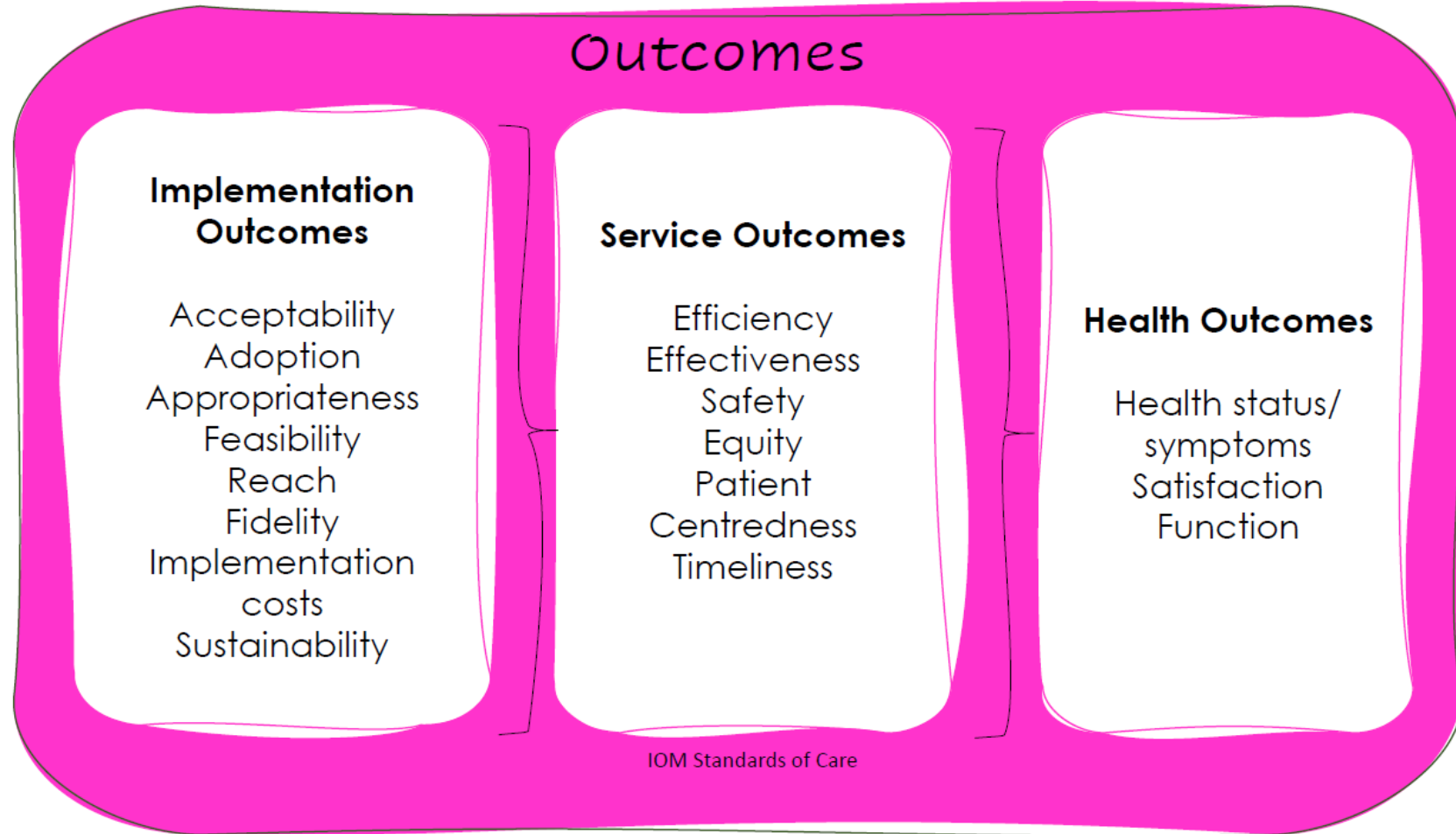
- To understand ‘effects of deliberate and purposive actions to implement new treatments, practice and services’.
- Indicators of i) implementation success, ii) proximal indicators of implementation processes and iii) important intermediary outcomes for systems improvements or clinical outcomes.
- Helps distinguish between ‘intervention failure’ or if a good intervention was not deployed correctly ‘implementation failure’.



Proctor et al 2011, Outcomes for Implementation Research: Conceptual Distinctions, Measurement Challenges, and Research Agenda. [Link to article](#)



# Implementation outcomes framework



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Acknowledgement: Dr Stephanie Best, adapted from Proctor et al 2011. [Link to article](#)



# Selection of measures depends on implementation question

Objectives	Implementation strategy development	Implementation effectiveness
<b>Aims</b>	Understand contextual/environmental factors to inform development/targets of implementation strategy	Test potential impact of implementation strategy
<b>Measures</b>	Measures informing design/development of implementation strategy such as context, potential reach, acceptability, feasibility and implementation determinants (e.g. barriers and enablers)	Measures of 'impact' of implementation such as adoption, fidelity and sustainability



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# Implementation outcomes framework

Implementation outcomes	Purpose
Acceptability Appropriateness Feasibility Potential reach	Data that informs the development of your implementation strategy (“indicators of implementation process”)
Adoption Fidelity Sustainability Implementation cost	Data that that tells you the impact of your implementation strategy (“implementation success”)



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# Key ‘impact’ outcomes

Outcome	Potential questions	Who is reporting on this outcome?	Potential methods
Adoption	<p><i>The initial uptake of the ‘innovation’</i></p> <p>Who is responsible for decision to adopt the intervention? Which providers are responsible for delivering the intervention?</p>	<p>Organisation/setting</p> <p>Providers</p> <p>End-users</p>	Survey, interviews, administrative data
Fidelity	<p><i>‘Quality or integrity of delivery of the innovation’</i></p> <p>What are the key elements of the intervention that must be delivered to improve health outcomes? What adaptations have occurred in this process?</p>	<p>Organisation/setting</p> <p>Providers</p>	Observation, checklists, focus groups, questionnaires
Sustainability	<p><i>‘Continued use of the innovation, integration into context’</i></p> <p>Will this continue to be delivered over the long term? How will you continue to track changes?</p>	<p>Organisation/setting</p>	Survey, interviews, case studies of ongoing effect, checklist
Implementation Cost	<p><i>‘Resources to implement the intervention’</i></p> <p>How much will it cost to implement each recommendation? Does it vary by different settings? What is the cost effectiveness of the implementation strategy?</p>	<p>Organisation/setting</p> <p>End-users</p>	Administrative data, survey data

# Resources to support selection of measures

- [Implementation Outcome Repository](#)
- [Reviews of implementation outcomes](#)
- [SIRC Instrument Repository](#)
- [Summary of measurement resources in health](#)

Implementation Outcome Repository

Click on each implementation outcome below to view all instruments measuring that outcome:

- Acceptability instruments**  
The perception among implementation stakeholders that a given treatment, service, practice, or innovation is agreeable, palatable, or satisfactory. Commonly used terms: Satisfaction with various aspects of the innovation (e.g. content, complexity, comfort, delivery, and credibility).
- Adoption instruments**  
The intention, initial decision, or action to try or employ an innovation or evidence-based practice. Commonly used terms: Uptake, utilisation, initial implementation; intention to try.
- Appropriateness instruments**  
The perceived fit, relevance, or compatibility of the innovation or evidence-based practice for a given practice setting, provider, or consumer, and/or perceived fit of the innovation to address a particular issue or problem. Commonly used terms: Perceived fit, relevance, compatibility, suitability, usefulness, practicability.

## Measuring implementation outcomes: An updated systematic review of measures' psychometric properties

Kayne Mettert , Cara Lewis , Caitlin Dorsey, more...

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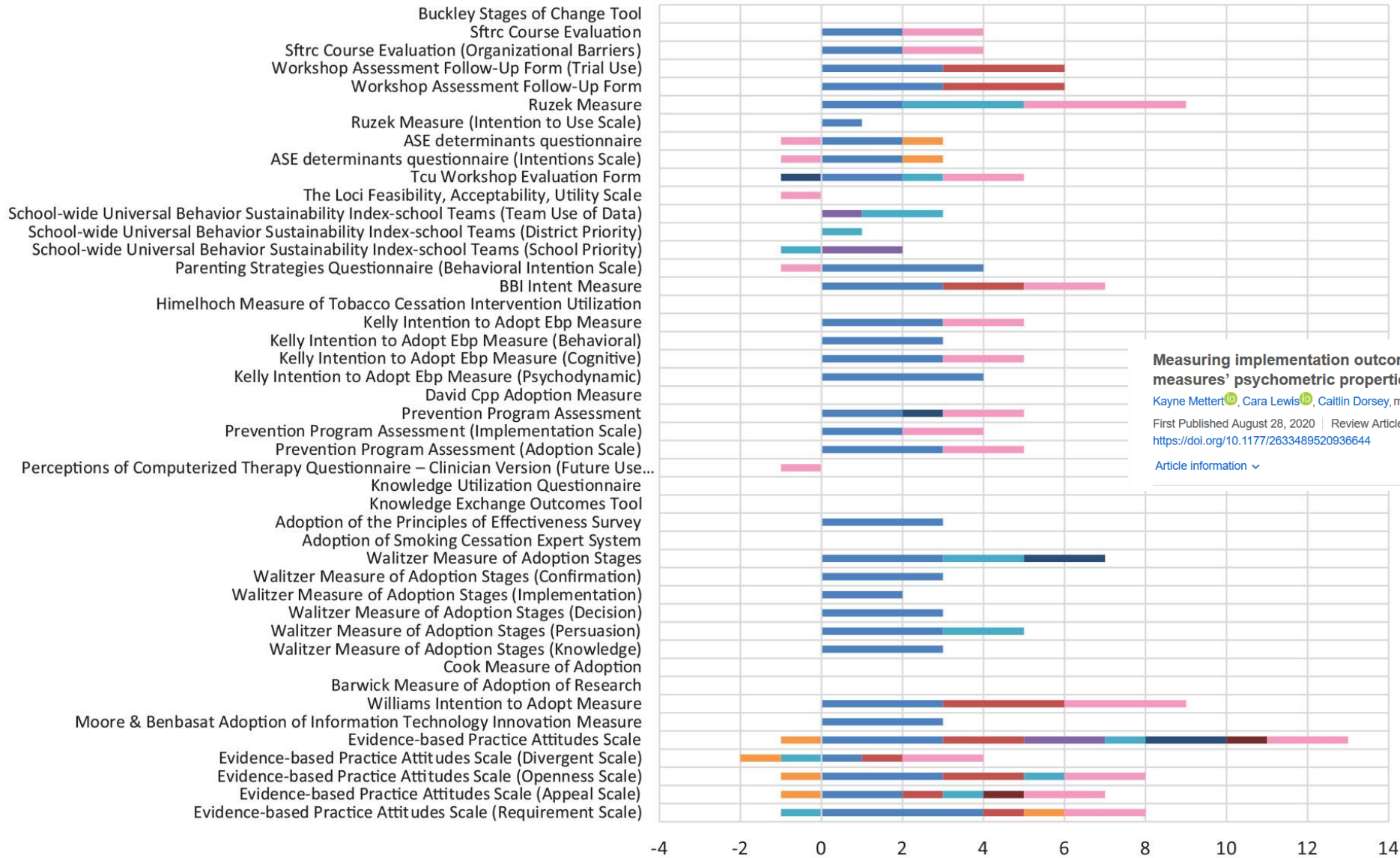
   Short report | [Open Access](#) | [Published: 22 March 2016](#)

## Measurement resources for dissemination and implementation research in health

Borsika A. Rabin , [Cara C. Lewis](#), Wynne E. Norton, Gila Neta, David Chambers, Jonathan N. Tobin, Ross C. Brownson & [Russell E. Glasgow](#)

[Implementation Science](#) **11**, Article number: 42 (2015) | [Cite this article](#)

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**Measuring implementation outcomes: An updated systematic review of measures' psychometric properties**

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e.g. Acceptability ratings.



- Internal Consistency
- Convergent Validity
- Discriminant Validity
- Concurrent Validity
- Predictive Validity
- Known Groups Validity
- Structural Validity
- Responsiveness
- Norms



## Apply Implementation Science

- Choose implementation strategies based on context.

## Integrate Implementation Science Approaches in Research

- Measure implementation outcomes *and* delivery of implementation strategies.

## Contribute to Implementation Science Knowledge

- Conduct comparative effectiveness implementation trials.
- Test implementation theories.

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