Nutrition and Obesity Policy Research & Evaluation Network Leveraging Implementation Science for Public Health Impact: Tools and Resources

> Margaret M. Farrell MPH RD Public Health Advisor Implementation Science team Division of Cancer Control and Population Science July 2019





*"Public health is hard. Learning about implementation science can help."**

*Inspiring Change: Creating impact with evidence-based implementation. The Center for Implementation



Overview of Presentation

- 1. What is Implementation Science and why is "everyone" talking about it?
- 2. Identify key several implementation science frameworks, models, and measures
- **3**. Explain how implementation science can help inform public health practice

Rapidly Maturing Field of Implementation Science



https://cancercontrol.cancer.gov/IS/

Key Terms

Implementation Science is the study of methods to promote the integration of research findings and evidence into healthcare policy and practice.

- Dissemination research is the scientific study of targeted distribution of information and intervention materials to a specific public health or clinical practice audience. The intent is to understand how best to spread and sustain knowledge and the associated evidence-based interventions.
- Implementation research is the scientific study of the use of strategies to adopt and integrate evidence-based health interventions into clinical and community settings in order to improve patient outcomes and benefit population health.
- Knowledge Translation is the process of converting scientific and technically complex research into everyday language and applicable actionale concepts in the practice setting.

Evidence-based Public Health Practice (Typical)



Community Outcomes

- Access to care
- Access to fresh fruits and vegetables
- Immunization rates

Positive Outcomes: Benefits for people/communities you serve

Looking at "What?" and "How" of Implementation to Inform Practice



Understanding public health practice drives stronger implementation science

 Missing the intermediate outcomes between implementing an evidence-based intervention and achieving health outcomes

 Need to understand how specific strategies were effective at moving evidence-based practice into routine setting

Contribute to knowledge base to then generalize to other contexts

Implementation Science & Public Health: Rich and Growing



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Q

Implementation Science

Funding Opportunities -

Training & Education -Research & Practice Tools -

Improving the impact of cancer control and population science on the health and health care of the population, and fostering the rapid integration of research, practice, and policy.





Advanced Topics Webinar **IS Blog** Sample D&I Grants **Research Tools** Read the latest Dispatches from Find excerpts of D&I grant Check out this month's Find tools intended to help Implementation Science Webinar Implementation Science at NCI applications. researchers better understand, to hear leaders in the field blog and view the archive. plan for, and conduct rigorous dissemination and discuss dissemination and

https://cancercontrol.cancer.gov/IS/

Implementation Science at Glance



- Align with other NCI Implementation Science team efforts
- Builds on lessons learned from Research to Reality community
- Initial draft reviewed by 86 practitioners and researchers
- Over 50 completed reviews
- Comments so extensive: when consolidated had over 18 pages of text
- Released April 2019

When are we incorporating implementation science?



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Start with Your Stakeholders.....

Create meaningful partnerships

- What outcomes are important to them?
- Engage them throughout the entire implementation.





Figure 2. Components to consider when selecting an intervention⁷

Case Study: Tailored Communication for Cervical Cancer Risk



"It will be exhausting and time consuming, but that is what is going to set you up for success."



Following up with women who have had abnormal Pap tests – to come in for follow-up testing

- Partnering with clinic staff
 - ASKING about workflow
 - CHECKING on other priorities
- Follow-up calls moved off-site to dedicated call center

Take Home Message:

 Integrating into practice ensured uptake and sustainability.

Prepare

Maintaining Fidelity and Making Adaptations

- Evidence-based interventions are not one size fits all.
- Making too many changes to an intervention can reduce its original effectiveness, or worse, introduce unintended and harmful outcomes.

The core components of an intervention relate to its:"

- » Content the substance, service, information, or other material that the intervention provides (e.g., screening tests)
- » Delivery how the intervention is implemented (e.g., setting, format, channels, providers)
 » Method how the intervention will affect participants' behavior or environment

Before adapting an intervention, consider the following:

- » Are adaptations necessary?
- » How important is it to your partners to adapt this intervention?
- » What adaptation would you make?
- » Do you have the resources to implement the adapted intervention?



Figure 3. Sources of intervention adaptation⁴⁴

What You Can Do: Balance Fidelity and Adaptations

GREEN LIGHT

CHANGES

YELLOW LIGHT

CHANGES

RED LIGHT

CHANGES

Making too many changes to an intervention can reduce its original effectiveness, or worse, introduce unintended and harmful outcomes.

Before making adaptations to the intervention, you should think about how the change to the original intervention can improve the fit to your community, setting, or target population, and at the same time. maintain fidelity to the core components of the original intervention. Think of possible adaptations as you would a green, yellow, or red traffic light: green light changes are usually OK to make; yellow light changes should be approached with caution; and red light changes should be avoided when possible.12

» Usually minor

- » Made to increase the reach, receptivity, and participation of the community
- » May include:
 - Program names
 - Updated and relevant statistics or health information
 - Tailored language, pictures, cultural indicators, scenarios, and other content
- » Typically add or modify intervention components and contents, rather than deleting them
- » May include:
- Substituting activities
 - Adding activities
- Changing session sequence
- Shifting or expanding the primary audience
- Changing the delivery format
- Changing who delivers the program
- » Changes to core components of the intervention » May include:
 - Changing a health behavior model or theory
 - Changing a health topic or behavior
 - Deleting core components
 - Cutting the program timeline
 - Cutting the program dosage

Case Study: Kukui Ahi (Light the Way): Patient Navigation

- Lay-patient navigators from the local community
- Provide education, coordinating screenings, providing transportation, assisting with paperwork, and finding ways to pay for care.
- Aim: to increase screening rates for colorectal, cervical, breast, and prostate cancers



Barrier	Implementation strategy	Definition	Implementation Stage	Examples
Low self-efficacy of patient navigators				

Barrier	Implementation strategy	Definition	Implementation Stage	Examples
Low self-efficacy of patient navigators	 Conduct ongoing training 			
	 Make training dynamic 			
	 Provide follow-on coaching 			

Barrier	Implementation strategy	Definition	Implementation Stage	Examples
Low self-efficacy of patient navigators	 Conduct ongoing training 	 Plan for and conduct ongoing training in the program or practice. 		
	 Make training dynamic 	 Vary training methods to cater to different learning styles and work contexts. 		
		 Ensure training is interactive, with a focus on skill- building. 		
	 Provide follow-on coaching 	 Use skilled coaches to provide ongoing modelling, feedback and support for staff. 		

Adapted from: Implementation in action: A guide to implementing evidence-informed programs and practices https://aifs.gov.au/publications/implementation-action 22

Barrier	Implementation strategy	Definition	Implementation Stage	Examples
Low self-efficacy of patient navigators	 Conduct ongoing training 	Plan for and conduct ongoing training in the program or practice.	Stage 2: Prepare Stage 3: Implement	
	 Make training dynamic 	Vary training methods to cater to different learning styles and work contexts.	Stage 2: Prepare	
		Ensure training is interactive, with a focus on skill- building.		
	 Provide follow-on coaching 	Use skilled coaches to provide ongoing modelling, feedback and support for staff.	Stage 3: Implement	



Barrier	Implementation strategy	Definition	Implementation Stage	Examples
Low self-efficacy of patient navigators	 Conduct ongoing training 	 Plan for and conduct ongoing training in the program or practice. 	Stage 2: Prepare Stage 3: Implement	 Ensure all practitioners, team leaders, etc can access training in an ongoing way.
	 Make training dynamic 	 Vary training methods to cater to different learning styles and work contexts. Ensure training is interactive, with a focus on skill- building. 	Stage 2: Prepare	 Use adult learning principles Consider using web-based technology to make the delivery more flexible. Supplement training with
	Provide follow-on coaching	 Use skilled coaches to provide ongoing modelling, feedback and support for staff. 	Stage 3: Implement	follow-on coaching

https://aifs.gov.au/publications/implementation-action



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Adapted from Implementation Science at a Glance (2019), Lewis (2017, Lyon and Bruns (2019), Proctor et al (2011)25

Implement

Implementation Frameworks





Journal of Clinical Epidemiology 100 (2018) 92-102

REVIEW

Journal of Clinical Epidemiology

Scoping review identifies significant number of knowledge translation theories, models, and frameworks with limited use

Lisa Strifler^{a,b}, Roberta Cardoso^a, Jessie McGowan^c, Elise Cogo^a, Vera Nincic^a, Paul A. Khan^a, Alistair Scott^a, Marco Ghassemi^a, Heather MacDonald^a, Yonda Lai^a, Victoria Treister^a, Andrea C. Tricco^{a,d}, Sharon E. Straus^{a,e,*}

^aLi Ka Shing Knowledge Institute, St. Michael's Hospital, 209 Victoria Street, East Building, Toronto, Ontario, MSB 1W8, Canada ^bInstitute of Health Policy Management & Evaluation, University of Toronto, the Floor, 155 College Street, Toronto, Ontario, MST 3M6, Canada ^cSchool of Epidemiology. Public Health and Preventive Medicine, University of Toronto, 6th Floor, 155 College Street, Toronto, Ontario, KIG 522, Canada ^dEpidemiology Division, Dalla Lana School of Public Health, University of Toronto, 27 King's College Circle, Toronto, Ontario, MST 3M7, Canada ^cDepartment of Geriatric Medicine, University of Toronto, 27 King's College Circle, Toronto, Ontario, MST 1A1, Canada Caccetted 6 April 2018. Publiched online 13 April 2018

Abstract

Objectives: To conduct a scoping review of knowledge translation (KT) theories, models, and frameworks that have been used to guide dissemination or implementation of evidence-based interventions targeted to prevention and/or management of cancer or other chronic diseases.

Study Design and Setting: We used a comprehensive multistage search process from 2000 to 2016, which included traditional bibliographic database searching, searching using names of theories, models and frameworks, and cited reference searching. Two reviewers independently screened the literature and abstracted the data.

Results: We found 596 studies reporting on the use of 159 KT theories, models, or frameworks. A majority (87%) of the identified theories, models, or frameworks were used in five or fewer studies, with 60% used once. The theories, models, and frameworks were most commonly used to inform planning/design, implementation and evaluation activities, and least commonly used to inform dissemination and sustainability/scalability activities. Twenty-six were used across the full implementation spectrum (from planning/design to sustainability/ scalability) either within or across studies. All were used for at least individual-level behavior change, whereas 48% were used for organization-level, 33% for community-level, and 17% for system-level change.

Conclusion: We found a significant number of KT theories, models, and frameworks with a limited evidence base describing their use. © 2018 Elsevier Inc. All rights reserved.

Keywords: Knowledge synthesis; Knowledge translation; Implementation; Theory; Model; Framework

Attached is a recently-published article from Sharon Straus and her team on theories, models, and frameworks in IS. Looks like we are up to 159 from the review of 61 several years ago by Rachel Tabak and David et al

Implementation Frameworks

Frameworks articulate and organize key variables that need to be considered when implementing new programs and practices.

Common themes:

- Implementation unfolds over time or through stages/phases.
- Implementation occurs in complex, multilevel systems.
- There is a bidirectional relationship between settings and EBIs. Both are likely to require some degree of adaption for implementation to be successful.

Consolidated Framework for Implementation Research



Figure-5. Consolidated Framework for Implementation Research (CFIR).²⁶ Source: Damschroder et al. 2009.

- "Meta theory" of factors that influence positively or negatively implementation success
- It has 5 domains of constructs:
 - intervention;
 - individual characteristics (implementers);
 - inner setting (e.g., leadership engagement)
 - outer setting (e.g., patient needs and resources)
 - process (e.g., plan, evaluate and reflect)
- Resource with example of quantitative measures and qualitative questions (<u>https://cfirguide.org/</u>)

From Theory to Practice

Implementation Strategies:

- "How to"
- Choose the strategies



	DEVELOP STAKEHOLDER INTERRELATIONSHIPS		
CONVENE TEAMS			
	UTILIZE FINANCIAL STRATEGIES		
PRACTICE FACILITATION			
	ENGAGE CONSUMERS		
PROVIDE INTERACTIVE ASSISTANCE			
	USE EVALUATION PLAN AND INTERACTIVE STRATEGIES		
SUPPORT PRACTITIONERS			
	CHANGE INFRASTRUCTURE		
ADAPT AND TAILOR TO CONTEXT			
	Examples of "Train and Educate		
	Stakeholders" Strategies		
TRAIN AND EDUCATE STAKEHOLDERS	 » Conduct educational outreach visits » Use train-the-trainer strategies » Create a learning collaborative » Provide ongoing consultation 		
			

Figure 7. Implementation strategy categories and examples²³

Case Study: WV Program To Increase Colorectal Cancer Screening

- Worked with the clinics over a two-year, twophase implementation period
- Multiple implementation strategies, such as patient navigation and media outreach, to enhance the intervention implementation and uptake.
- Technical assistance to clinics extensively during the project's first year.
 - Tailored technical support and monthly facilitation meetings and helped monitor changes to each clinic's care delivery system.

As partners, you need to listen.

WV Program To Increase Colorectal Cancer Screening

The West Virginia Program to Increase Colorectal Cancer Screening (WV PICCS) is a CDC-funded program directed in West Virginia through Cancer Prevention and Control at WVU Cancer Institute. The purpose of WV PICCS is to increase colorectal cancer screening rates in persons aged 50-75 in partnering health care systems in West Virginia. To date, WV PICCS has partnered with 44 primary care clinics to help increase their colorectal cancer screening rates.



Evaluate

Implementation Science Can Drive Evaluation

What to Evaluate

Is what we're doing working? Why or why not? How do we show the value of the work we do?

Four categories of outcomes:

Implementation	Program	Community	Individual
Outcomes	Outcomes	Outcomes	Outcomes
 » Acceptability » Adaptation » Adoption » Appropriateness » Feasibility » Fidelity » Maintenance » Penetration » Sustainability 	 » Cost-effectiveness » Effectiveness » Equity » Reach 	 » Access to care » Access to fresh produce » Built environment » Disease incidence » Disease prevalence » Health disparities » Immunization and vaccination » Walkability 	 » Longevity » Physical activity and fitness » Social connectedness » Quality of life

Case Study: Livestrong at the Y

Evaluation: Examining Spread and Uptake

Launched in 2007 as a partnership between the LIVESTRONG Foundation and YMCA of the USA and is available at more than 400 locations, having served more than 29,000 survivors to date.

LIVESTRONG at the YMCA, program directors and practitioners credited the time spent in preparation and in giving organizations the time to build the program:

- identify local staff and partners,
- develop a partnership pathway, and
- sustain meaningful relationships

was central to their success.



UNESTRONG GUIDERDON



Other Exciting Reasons to Download ISaaG

Sustainability

Your intervention can only deliver population benefits if you are able to sustain your activities over time. Sustainability describes the extent to which an evidence-based intervention can continue to be delivered, especially if external support or funding ends.³⁵

You will only be able to sustain effective implementation efforts if you keep evaluating and adapting it to your setting and population. Therefore, after you evaluate your efforts, you should reasses and continue sustaining the implementation.

What You Can Do: Sustain Your Intervention Program

Consider the following **eight core domains** to increase the intervention's capacity for sustainability.^{16,37} These domains were developed by practitioners, scientists, and funders from several public health areas.

You can use the <u>Program Sustainability Assessment Tool</u> to understand factors that influence your intervention's capacity for sustainability and develop an action plan to increase the likelihood of sustainability. The tool helps identify your organization's sustainability strengths and weaknesses and can guide your sustainability planning.

Scaling Up

If the intervention has been successful in your setting, you or your organization might be considering "scale-up." Scaling up is the deliberate effort to increase the impact of successful interventions so that they can benefit more people and foster sustainability.³⁸ You can scale-up your implementation effort in three ways, as shown in Figure 9.

Scaling up requires a new examination of your partnerships and resources to decide if there is evidence to support the adapted intervention.

De-Implementing

De-implementation is the process of reducing or stopping the use of a practice, intervention, or program. There are many reasons why a public health agency, organization, or department may purposely choose to reduce (in terms of frequency or intensity) the delivery of a practice to a target population, or choose to stop offering the practice to a target population entirely.

Practices that may be appropriate for deimplementation include those that are:

» Ineffective lea evidence shows the

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not yet

What You Can Do: Follow These Steps for De-Implementation

- Identify and prioritize practices that may be appropriate for de-implementation.
 - a. Is your organization offering practices that are no longer needed by the community?
 - b. Is there a more pressing or important health issue that should be addressed instead?
- Gather information on potential barriers to the de-implementation process.
 - a. Will personnel or organizational changes be needed if the practice is no longer offered?
 - b. Will de-implementing the practice reduce collaborative opportunities with community partners?

³ Identify strategies that are

Final Thoughts

- Applying IS to practice can seem like a lot of work
 - Requires careful planning, thoughtfulness, resourcefulness and dedication.
 - Investment of resources pays dividends later in the form of more sustainable and effective service delivery.
- Try applying an implementation framework to your next initiative.
 - What fits in your context?
 - What activities or approaches may need to be adapted or tailored?

You'll build your confidence and capacity to lead implementation efforts

Questions?



Consider how to better engage public health practitioners to drive implementation science

"What challenges do you face moving research-tested interventions into practice?"

- Engaging stakeholders?
- Sustaining programs?
- Identifying programs/interventions?
- Adapting interventions?
- Aligning interventions with your community (fit?)

Even more to consider.....

PREVENTING CHRONIC DISEASE PUBLIC HEALTH RESEARCH, PRACTICE, AND POLICY

Amplifying Practitioner Perspectives to Strengthen Implementation Science



Margaret Farrell

The NCI Implementation Science Team takes seriously our mission to advance the science of implementation and integrate implementation science within the broader cancer control and population sciences context.

March 2019

Continue Reading »

Dissemination and Implementation Science for Public Health Professionals: An Overview and Call to Action

Paul A. Estabrooks, PhD¹; Ross C. Brownson, PhD^{2,3}; Nicolaas P. Pronk, PhD^{4,5} (View author affiliations)

Suggested elasten for bits erteler: Balakresis JA, Brewnaen RC, Prenk NP, Diasemination and Implementation Science for Public Health Prefasionals: An Overview and Call to Action. Prev Chronic Dia 2018;15:180513. DOI: http://dx.doi.org/10.0002/public.100012______

A Selective Review of the Origins of Dissemination and Implementation Science

Preventing Chronic Dissues has a mission to enhance communication between researchers, public health professionats, and policy makers to integrate research and practice experiment with a gal of improved population health. As a result, those involved in dissemination and implementation (DI) science — a growing field of study that examines the process by which sciencific evidence is adopted, implemented, and sustained in typical community or clinical settings — have submitted and published their rigorous and relevant work in the journal with a high degree of success. Over the previous 2 years: the journal also added a new rold teype implementation. Evaluation — to facilitate submitted and publiched their rigorous and relevant work in the pased public health interventions in community and clinical settings. In an efforts to ontinue the focus on Di, we wrote this commentary with the following objectives: 1) to provide a brief DI description, 2) to demonstrate the shared system—base focus of DI science and public health practice, and Di to highlight pathways to move public health—focused DI science forward. We reflect on our own learnings and by doing so hope to motivate more public health—focused DI science forward. We reflect on our own learnings and by doing so hope to motivate more public health—focused DI science forward. We reflect on our own learnings and by doing so hope to motivate more public health—focused.

Direserch emerged — by name — over the past 25 years (1), but its roots can be traced to a much earlier time (2-cal). A review of current Direserch areas likely would not have seemed out of place in the 1930s through the 1950s. Some examples include the need for clinically relevant and community-relevant research (5), engaging systems and communities as partners in the co-restorior of vidence (6) and examining the characteristics of interventions to determine which are more likely to be taken to statia and sustained (7). These topics can be traced back to the online of action research in the 1930s, the put and and between pure and apoled research

table back to de organise action research in the 1940s, the post and purcess end parts and spinor research in (8). Archie Cochrane (9), and Everett Rogers (3,10) provide a strong foundation for DI science.

Kurt Levin founded the field action research (13). He and other scientists of his day strugged against a paradigm that di for consolider practice professionals in the development, implementation, and interpretation of sciences and practice as solution like is could heave come from the last American Public Heabit Association annual meeting. Levin criticated the lack of integration of sciences and practice as a tots opportunity to understand group dynamics and organizational change processes while aliao contributing to achieving a community benefit through research. He argued for a pregnatic explatementiagical approach that combined social through experimental or quasi-experimental methods, and practice perspectives that could be used for local decision making and contribute to generalizable knowledge. He operation intended to benefit, and local scientists to collectively conduct diagnostic, participatory, semprincal, and experimental action research (B). Action research whether decisible as a system-based approach, participatory disseminated participatory essent/h action generalizable for courset-benerations, provides a methodological basis for much of the current Di research. It aliao understores the leal outcomes of builch health foroused Di research action edemonstraing local limited with the current Di research. It aliao understores the leal outcomes of publich health foroused Di research action and and and and and and action currently contributing to generalizable involvedge. He demonstraing local limited with encourrently contributing to generalizable involvedge and participatory and the second second second and participatory disseminate in the sectory where describe and participatory and and and a system-based approach, participatory disseminate in the base of the demonstraing local limited with the current Di research. It aliao understores the leal outcomes of publich health foroused Di research — a balance of demonstraing local index with locarument by contribute to generate limited base h

Arche Gorbrane — the inspiration for the thinking Gorbrane collaborative (11) and the myriad of pstematic reviews developed with a gual to provide a summary of evidence that can be used for health care practice and decision making — realled against the focus on pure research onever applied research though during the course of his career (312). Indeed, this quote captures his view of the existing research paraligm in the late 1940s. T remember being advised by most distinguished people that the best research should be uturely useless? (2) 49432. Cochrane as approach was groupoided in his experimence as a prisoner of war in Germany. Where her provided the report to the other thousands of solities and was concerned with the likelihood that he may have indoversently provided therapies that idd more harm than good because of the lack of scientific evidence for the medical approaches of the day. As a result, he became an a volocate for the user of randomized conciled that (RCT) for practical, applied research that could contribute to health are practice in a timely manner. By the early 1970s Cochrane was advocate for the user of lareature to complie the findings of research should be and allow for guideline and policy implementation across medical displicities. Cochrane reviews and other systematic review approaches (13) are used broadly in D i and to support evidence-based public health (BEPH) practice as an indicator that a given intervention is either appropriate or inappropriate for broad-scale adoption, implementation, and sustainability.

Finally, Exerct Rogers could be considered the Fasher of DI with his seminal work published in *DI/Ikusion of Innovations from the Grist* edition in 1952 through the fifth and final edition in 2020 J. With his roots in rural sociology. Regers introduced at therestical approach that considered the communication of an innovation, were trime and through fishing charmels, across a social system. He also proposed that an innovation could be described as an idea, practice, or product that is previewed as new to a social system. Rogers innovation, or or the Schaped course demonstrated the relative rate of aboption across any innovation and adopters with a slow rate of spread of an innovation followed by a steep increase as the early and late majority take up the innovation, followed by a slowing of the result or ads obtained here the sume with a lates "Interest" and a social system. Rogers interest is up to the schaped course on soft which here with a here and up with a lates "Interest" as the processes.

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U.S. Department of Health & Human Services | National Institutes of Health

Implementation Science at a Glance

A Guide for Cancer Control Practitioners

Download today!

http://go.usa.gov/xmqyV

Also available via GPO bookstore, Google Play, and coming soon to iTunes and Kindle



Other Resources

Cancer Prevention & Control Research Network (<u>http://cpcrn.org/pub/evidence-in-action/</u>) *Putting Public Health Evidence in Action Training Workshop*

The Community Guide

(https://www.thecommunityguide.org/tools)

The Center for Implementation

(https://thecenterforimplementation.com)

Inspiring Change: Creating impact with evidence-based implementation (mini-course)

Australian Institute of Family Studies

(https://aifs.gov.au/publications/implementation-action) Implementation in action: A guide to implementing evidence-informed programs and practices

NCI Implementation Science team https://cancercontrol.cancer.gov/IS



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Implementation Science at a Glance



A Guide for Cancer Control Practitioners





www.cancer.gov/espanol

www.cancer.gov