Dissemination and Implementation Science (DIS) is a growing research field that seeks to inform how evidence-based interventions can be successfully adopted, implemented, and maintained in health care delivery and community settings. In this article, an overview of DIS and how it has contributed to primary care delivery improvement, future opportunities for its use, and DIS resources for learning are described. Case examples are provided to illustrate how DIS can be used to solve the complex implementation and dissemination problems that emerge in primary care. Finally, recommendations are made to guide the use of DIS to inform and drive improvements in primary care delivery. (J Am Board Fam Med 2018;31:466–478.)

Keywords: Delivery of Health Care, Health Resources, Implementation Science, Primary Health Care

Research in primary care has highlighted many new developments in the past decade including training programs, scope of care, care teams, treatments, and payment models. These changes have resulted in advances, opportunities, and challenges. Some of the most recent and ongoing developments in primary care include a focus on patient-centered care, the concept and implementation of the patient-centered medical home, the use of electronic medical records and meaningful use standards, payment redesign such as the Medicare Access and CHIP Reauthorization Act of 2015 and Merit-based Incentive Payment System, Maintenance of Certification requirements as well as practice transformation strategies to implement these initiatives. Complicating matters further are new developments in the patient population including aging and the associated increasing burden of chronic illness, health equity and social determinants of health issues, and the coming era of precision medicine.

Primary care practitioners and researchers are in the forefront of making these changes happen. Achieving the goals of these initiatives, however, can be challenging for a multitude of reasons. It is well known that most innovations and evidence-based practices do not make it into practice or, if they do, take an average of 17 years. Some of the reasons for this delay or failure in implementation of new initiatives are contextual and include lack of training and policy support, reimbursement issues, and lack of appropriate dissemination infrastructure. The complicated demands being placed on increasingly complex systems require that a new strategy and science be in place to be successful at the dissemination, implementation, and sustainability of evidence-based programs. Dissemination and implementation science (DIS), a relatively new area of health research, shows increasing promise to address many of these issues and bridge the gap between new, efficacious or evidence-based practices, guidelines, policies and interventions, and routine practice. DIS studies how interventions can
be designed to work in real-world clinical and community settings, and identifies and evaluates the strategies that produce these results.\textsuperscript{15,16} The focus is on designing interventions and identifying implementation strategies that work in real life and across diverse (and especially low resource), complex settings and populations.

Although others have provided an introduction of DIS for health services researchers and practice-based research networks\textsuperscript{17–19}, the purpose of this article is to describe DIS—what it is, what methods it uses—within a focus on how it can contribute to primary care medical practice, for both researchers and practitioners. We summarize pertinent DIS frameworks, show how DIS approaches are different from conventional research, illustrate their use with an example planning and evaluation aid, provide 2 use cases, and conclude with resources for DIS strategies in primary care.

**Dissemination and Implementation Science—What It Is and What It Can Do for Primary Care**

To address the complex, multi-level issues above, we usually attempt to use strategies that have worked in the past and approaches we have been taught. We try to just work harder or come up with a better or more comprehensive intervention. The problem is that in our challenging and rapidly changing context these methods often do not work to address our most pertinent implementation challenges.\textsuperscript{20,21} Different questions need to be asked, and different solutions and methods applied. DIS can help to address these problems. To achieve population impact, we need to understand how well an intervention (we will use the term intervention to refer to both programs and policies) achieves its intended effects, what implementation strategies are effective, how broadly and how well that intervention is implemented to achieve those effects, if there are unintended consequences, and what the cost, generalizability, and sustainability potential are for the intervention. Although research has placed much emphasis on the former (ie, intervention effectiveness), it has paid little attention to the latter issues that fall under the umbrella of DIS.

**What Exactly Is DIS and How Is It Alike and Different from Other Evaluations or Research?**

The most frequently used definitions of dissemination and implementation science indicate that dissemination research is “the systematic study of processes and factors that lead to widespread use of an evidence-based intervention by the target population” and suggests that implementation research “seeks to understand the processes and factors that are associated with successful integration of evidence-based interventions within a particular setting.”\textsuperscript{22,23} Therefore, DIS seeks to bridge the gap between evidence-based interventions and their uptake in community clinical practice.

It seems important to point out how DIS is similar and different from both quality improvement and traditional efficacy research. Although both DIS and quality improvement (QI) address real-world practice problems, the ultimate goal and related methodologies are different.\textsuperscript{24} DIS varies from QI in that it produces generalizable knowledge (not only finding solutions to a problem in a specific local setting) and seeks to apply principles of hypothesis testing and methodological rigor. In contrast, QI approaches seek to ask and answer questions that are focused predominantly on determining what works in a particular local setting and engaging participants in the process of improvement.\textsuperscript{25,26} DIS studies typically use mixed methods, including both qualitative and quantitative methods, and focus on identifying factors that affect uptake on multiple levels, including patient, provider, clinic, facility, organization, and many times, the broader community and policy environment. DIS also requires a solid grounding in theory and usually the involvement of transdisciplinary research teams.\textsuperscript{17} In recent years, DIS has increasingly looked at ways in which designs and strategies used in QI could be used for DIS; the synthesis of these 2 approaches is sometimes called “improvement science.”\textsuperscript{27}

What is often more confusing is the place of DIS in the continuum of types of research. Many distinguish DIS from what is traditionally thought of as efficacy research—identifying a novel research and testing it in a randomized controlled trial under tightly controlled conditions. In contrast, DIS is inherently pragmatic and seeks to ask real-world implementation questions including use under more typical or diverse conditions. Table 1 summarizes key dimensions distinguishing DIS from efficacy research. It is important to note that both are needed. Efficacy research seeks to maximize internal validity and answer whether a new intervention is truly having the intended effect. DIS
research addresses issues that make it possible to implement an empirically supported program or policy (often referred to as an evidence-based intervention) into actual care delivery and determine the conditions under which it is more and less effective. For example, for the issue of representativeness, an efficacy study would seek to have a narrow, clearly defined population and would be conducted in optimal settings to minimize variability and confounding factors to more cleanly understand the intervention’s effect on a targeted population. In contrast, a DIS study would include a broad sample of patients, staff, and practices to understand how different populations respond to the intervention. The interventions would be delivered by staff typical of those settings rather than experts in academic centers.

Using PRECIS-2 to Determine the Explanatory to Pragmatic Continuum

To determine the degree to which a study or project is pragmatic or more of a efficacy (ie, explanatory) research study, we recommend using the Pragmatic–Explanatory Continuum Indicator Summary (PRECIS-2) “wheel” to show where a particular study lies on the continuum of explanatory to pragmatic research.28 This aid has been used to both plan and report findings of research studies; it summarizes at a glance how pragmatic a study is and has been used by the National Institutes of Health (NIH) and Patient-Centered Outcomes Research Institute characterize pragmatic studies.29–31 No study is completely pragmatic or completely explanatory, but use of the PRECIS-2 approach can help to clarify where one’s study lies on each of the 9 dimensions relative to the study goal.

Another key feature of DIS is that it also studies the strategy for implementation of the intervention and not just an intervention. For example, a researcher may wish to study the uptake of adding a new process for chronic pain management using patient–clinician agreements or practice facilitation. The intervention is the chronic pain agreement and protocol for reducing opioid use. However, DIS also studies the extent that the intervention gets used in typical settings and what implementation strategies are most cost-effective to make the intervention successful. Implementation strategies might include consensus building meetings among key staff to determine work flows and referral patterns, training for clinicians and staff on how to use and document the results in the agreement, audit and feedback on initial success, and adaptations based on this feedback. The value of looking at the implementation process is that it allows us to understand what needs to be done to get an effective intervention used routinely.
Adaptation Versus Fidelity

A key issue in implementation research is the concept of fidelity versus adaptation. The traditional efficacy view is that the intervention protocol needs to be consistently delivered without variation (ie, fidelity). Delivering the protocol as developed by the research team is considered necessary for determining causality. However, once an intervention is taken up in practice, there is always variation in how it is used across settings, staff, patients, or time. This leads one to ask, what components are core and need to be delivered consistently, and which need to be adapted or tailored to different populations, settings, and conditions? Does it matter how and who implements them and using what mechanism? These questions are in the domain of adaptation. In fact, effective implementers know that adaptation can result in improved outcomes if the adaptations retain the core elements important to the outcome desired, but also create a better “fit” to the setting.²¹,³²

A critical difference between more traditional efficacy research and DIS is in the question each tries to answer. Although efficacy trials answer the question: “does this intervention work under tightly controlled conditions?” DIS ask a more complex question of “how, when, with whom, where, and under what circumstances does this intervention work?” The use of mixed methods is often necessary to comprehensively study implementation. Although one could study an implementation process using only quantitative measures such as clinical data and numerically scored survey responses, this would miss important understanding that could be gleaned from qualitative methods such as interviews or observations. Extended discussion on qualitative methods for DIS can be found elsewhere.³³–³⁵

DIS Models for Primary Care Practice and Research

How might primary care team members use a DIS perspective in improving the quality, impact, and efficiency of their work? How might a primary care researcher use DIS approaches to study what makes an intervention implement well, be generalizable, and be sustainable? In this section, we provide some answers to these questions.

The use of DIS models can provide a useful starting point for this journey. There are a plethora of DIS models available for planning and evaluation of DIS activities. A number of reviews and an interactive web-based tool (Dissemination and Implementation Models in Health: http://dissemination-implementation.org) are available to guide decisions on how to select, combine, and adapt them.³⁶–³⁸ Although some DIS models might seem too complicated to implement in primary care practice, others are more practical, intuitive, and transparent and can be quite helpful in organizing the context and activities of complex primary care settings and processes.

In this article, we use the reach, effectiveness, adoption, implementation, maintenance (RE-AIM) framework (reach, effectiveness, adoption, implementation, and maintenance; www.reaim.org) to provide further guidance for DIS. We chose this framework as it has been broadly used across topics and settings and has been successfully operationalized by researchers and practitioners alike. RE-AIM is a planning and evaluation model for consideration of key dimensions to plan for and assess how well an intervention might work in practice.³⁹ RE-AIM includes 5 dimensions to call attention to the importance of measuring not only a traditional clinical outcome (ie, effectiveness), but also other implementation outcomes that are less frequently assessed but critical to producing broad impact. RE-AIM has been used widely.⁴⁰,⁴¹

DIS for Primary Care Practitioners

In Table 2, we illustrate how questions associated with RE-AIM may be used to identify key questions for planning an effective quality improvement project or help with population health management. For practitioners, planning and evaluation is more the framework for consideration, rather than formal research. Considerations include the contextual variables that are likely to impact the implementation process, such as costs, “fit,” and burden to deliver and continue the intervention, such as on workflows and unanticipated consequences. Increasingly important is the extent to which team members can develop a common mindset and goals and use quality improvement processes to work toward a desired outcome.

Practitioners may have had difficulty trying to apply a DIS or other conceptual model to their practice setting and questions. RE-AIM and other pragmatic models have been used successfully for planning and evaluation by clinicians and community leaders. A recent article provides explicit guidance for pragmatic use of RE-AIM when one does not have the resources or scientific expertise available in a well-funded grant.⁴²
Table 2. Planning Questions for Primary Care Interventions Intended to Produce Clinical Impact Using the RE-AIM Framework

<table>
<thead>
<tr>
<th>RE-AIM Element and Definition</th>
<th>Core Questions</th>
<th>Supplemental and Probe Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reach:</strong> The absolute number, proportion, and representativeness of individuals who are willing to participate in a given initiative</td>
<td>Who will benefit from the initiative? Individuals (e.g., students, employees, patients, kids, parents, community members)</td>
<td></td>
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<tr>
<td></td>
<td>Whom do you plan to reach in your initiative? How or where will you reach them?</td>
<td>Can you define the target population(s)? How will you advertise and promote the program? Who needs to approve these methods?</td>
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<tr>
<td></td>
<td>How will you know if you reached them and who participated?</td>
<td>Will you reach those at higher risk or with fewer resources? How will you know?</td>
</tr>
<tr>
<td><strong>Effectiveness:</strong> The impact of an intervention on important outcomes, including potential negative effects, quality of life, and economic outcomes.</td>
<td>What are the most important outcomes you expect to see? Individuals (e.g., more physical activity, better quality of life, less bullying, less absenteeism, less drug use)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>How likely is it that your initiative will achieve its key outcomes?</td>
<td>What are the biggest threats to seeing the outcomes you want?</td>
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<tr>
<td></td>
<td>How will you know if the outcomes were achieved?</td>
<td>What measures will be used?</td>
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<tr>
<td></td>
<td>What unintended consequences or outcomes might there be (positive or negative)?</td>
<td>Who will care about the outcomes?</td>
</tr>
<tr>
<td><strong>Adoption:</strong> The absolute number, proportion, and representativeness of settings and intervention agents who are willing to initiate a program.</td>
<td>In what settings do you want to participate? Settings or organizations (e.g., uptake in worksites, schools, clinics, health departments, community organizations)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>What kinds of setting or organizations will need to participate in the program or policy initiative?</td>
<td>Who will care about this?</td>
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<td></td>
<td>Who will deliver the program or policy (actually do the work) and do they have the skills and time?</td>
<td>How will the intended audience hear about this? Why will they want to participate? What is needed to encourage them to get engaged?</td>
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<td></td>
<td>How many of these settings and organizations do you estimate will use the program or participate in your policy?</td>
<td>What skill sets are needed?</td>
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<td></td>
<td>How will you know if organizations used the initiative?</td>
<td>Why might staff and volunteers want to participate?</td>
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<tr>
<td><strong>Implementation:</strong> At the setting level, implementation refers to the intervention agents’ fidelity to the various elements of an intervention’s protocol. This includes consistency of delivery as intended and the time and cost of the intervention.</td>
<td>How will the initiative be delivered, including adjustments and adaptations? Settings or organizations (e.g., schools, workplaces, clinics, community settings or organizations)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To what extent will the key aspects of the program or policy be delivered as intended?</td>
<td>What are the key elements of the initiative that must be delivered to be successful? Which ones are less important for success?</td>
</tr>
<tr>
<td></td>
<td>What adaptations or modifications do you think are necessary to help implement the initiative in your chosen settings?</td>
<td>What are likely implementation challenges you will need to overcome? How might you adapt to address these?</td>
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<tr>
<td></td>
<td>How will you know what adaptations or modifications were made during the program?</td>
<td>Who can help you keep track of modifications or adjustments made?</td>
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<tr>
<td></td>
<td>What are some of the possible obstacles to implementation?</td>
<td>Are there competing projects or programs to consider?</td>
</tr>
</tbody>
</table>
DIS for Primary Care Researchers

For researchers, RE-AIM is a predominant model and has proven successful for measuring the key aspects of a DIS study. A newer model that builds on RE-AIM is the Practical, Robust, Implementation and Sustainability Model (PRISM). PRISM includes the RE-AIM outcome elements, but expands beyond them to include consideration of contextual factors at the levels of the intervention, individual, and system, and how those factors affect the RE-AIM dimensions. These additional contextual issues, especially aspects such as the implementation and sustainability infrastructure, provide important clues to factors that may impact the extent to which RE-AIM outcomes and population results are achieved.

Another useful guide for researchers in planning and tracking the data from a DIS study is to use the Expanded CONSORT Figure. Many researchers use, and most medical journals require, the CONSORT diagram to map out the subjects who participate, continue, and are analyzed in an intervention. The expanded CONSORT diagram includes adoption issues that occur before individual-level recruitment (e.g., setting and staff level inclusion, exclusion, participation, and representativeness), as well as maintenance or sustainability after a study is completed. These additions to the standard CONSORT diagram help to enhance transparency of research and to address external validity and public health impact.

Case Studies: Using a DIS Approach

Example No. 1: Integration of Brief, Validated Measures of Health Behaviors, Mental Health, and Patient Preferences into Electronic Medical Records (MOHR Study)

The use of patient-reported information to influence care decisions has become an increasing focus...
of attention in primary care research and practice. The My Own Health Report (MOHR; www.myownhealthreport.org) project used interactive technology to assess health behaviors, mental health issues, quality of life, and patient preferences in the primary care setting. The goal of MOHR was to address a set of DIS questions: with what consistency could we collect patient-report measures (reach), and how well we could use them to set patient driven goals and provide feedback to patients, primary care providers, and staff across a wide variety of patient populations and clinical settings (implementation and effectiveness), and how successfully can this be done across diverse settings (adoption). The study used a cluster randomized, pragmatic trial design in 18 diverse primary care clinics across the country to assess the feasibility, costs, and impact of efforts to systematically collect and act on data related to patient-reported issues. The study team used the RE-AIM framework to design and evaluate the study.

Key findings from MOHR indicated that it was feasible to collect and provide feedback on these patient-centered issues in diverse settings. Patients in MOHR clinics were more likely to set goals for improvement and reported greater changes in some behaviors. This was only possible by allowing local clinics to adapt and tailor the timing, modality, and language of the information gathering. Initial reports on the patterns and interrelationship of different health behaviors, time, and costs required and initial results have been published as referenced above.

Example No. 2: Implementation of Care Management in Primary Care

Care management is defined as the use of “systems, science, incentives, and information to improve medical practice and assist consumers and their support system to become engaged in a collaborative process designed to manage medical/social/mental health conditions more effectively. The primary goal of care management is to achieve an optimal level of wellness and improve coordination of care while providing cost-effective, nonduplicative services.” There has been a growing literature on the impact of care managers integrated in primary care practices. Early results were promising; however, there were conflicting results on level of improvement in patient outcomes. The focus of our multiple care management studies was to answer the following DIS questions: What are the core components of care management, under what circumstances and in what settings does care management get adopted, implemented well, and maintained, what patient outcomes improve as a result of care management, and what are the most cost-effective implementation strategies for putting care management into place?

Using RE-AIM as a guide, we studied care management implementation by comparing different care management models within a natural experiment and by conducting a cluster-randomized controlled trial to examine the effects of practices having a care manager versus not having a care manager. These studies occurred in multiple physician organizations in Michigan. We found that implementation factors such as on-site care managers (ie, embedded in the practice team) and providing care management for all patients who needed it (instead of a small subset) were important implementation factors related to success.

Care management where the care managers were off site and worked as an independent operation were not often utilized and therefore, fell short in delivering patient help and patient improvement outcomes.

In both of these case studies, the use of RE-AIM helped uncover the factors important to making the adoption, implementation, and maintained use of evidence-based approaches successful.

Key Issues and Future Directions

As new innovations are being developed, they should be designed with an eye toward how they can eventually be used. This approach is often referred to as “designing for dissemination” and involves a set of processes that are considered and activities that are undertaken throughout the planning, development, implementation, and evaluation of an intervention to increase its dissemination and implementation potential. In fact, designing for dissemination is an emerging and important field within DIS.

Another emerging topic within DIS is deimplementation. Deimplementation is the study of decreasing the use of interventions that have no utility, are wasteful, or for which harms outweigh benefits. A common area where this occurs in health care delivery is in the area of deprescribing, or deimplementation, particularly with regard to...
polypharmacy. An excellent primary care example is the Choosing Wisely program. Choosing Wisely (http://www.choosingwisely.org) is an initiative that seeks to advance a national dialog on avoiding wasteful or unnecessary medical tests, treatments, and procedures. Because many health care practices begin because of various cultural, political, or other reasons and reimbursement follows. Therefore, deimplementation has significant clinical implications and is often quite challenging.

How can primary care take advantage of DIS? There are numerous possibilities given that primary care medical practice is in a state of change. There are new interventions that can be incorporated into practice every day. Take the example of precision medicine. If medical treatments can be tailored based on patient’s genetic profiles, how will that work? It will likely require new methods of counseling and referring patients and new workflows to accommodate the extra step in the treatment process. Questions arise including how consistently these procedures will be implemented, for which patients, and how much it costs the patient and the practice. These are all implementation issues. Assuming these are somewhat resolved, how does one disseminate these implementation methods to a diverse set of clinics in varying geographic areas with different contextual issues, resources, staffing, and patient populations?

Where to Begin? Learning Steps and Resources

A first step is to become familiar with theory and approaches for DIS. There are many excellent resources for this included in the Appendix. Another step is to reach out to the increasing cadre of colleagues who focus on DIS. They can be found attending the annual Academy Health/NIH DIS meeting, or are members of the Society for Implementation Research Collaborative (SIRC) or the VA Quality Enhancement Research Initiative (QUERI). A few journals are specifically focused on publishing DIS such as Implementation Science, Translational Behavioral Medicine, and BMC Health Services Research; however, other journals including the Journal of the American Board of Family Medicine also publish DIS articles, including these recent examples.18,68–69

DIS is receiving increased attention not only in the United States, but equally or more so in Canada (where it is called Knowledge Translation), the United Kingdom, Europe, and elsewhere. Some of the most exciting emerging applications are in low- and middle-income countries, especially concerning task shifting and ways to use disruptive innovation strategies to dramatically increase reach and deliver interventions at a fraction of current cost.70–72 As the field is growing, there are increasing training opportunities for researchers seeking to become DIS scientists. In particular, the National Cancer Institute sponsors a training program called the Training Institute for Dissemination and Implementation Research in Cancer (TIDIRC).

Conclusion

The field of DIS has tremendous potential for impact on the dissemination and implementation of evidence-based interventions and strategies in primary care. This new and evolving field of research will illuminate important factors that drive success. DIS is relevant and can provide fresh ideas, models, and evaluation approaches for primary care researchers, practices, practitioners, and patients. It can make a difference not only for patients, but also for those who work and conduct research in primary care.

To see this article online, please go to: http://jabfm.org/content/31/3/466.full.

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Appendix: Dissemination and Implementation Science Key Resources

Key Books and Articles in Dissemination and Implementation Science Research


- Gold standard text on DIS research—Currently under revision with new edition expected in late 2017 or early 2018.


- The dynamic sustainability framework identifies key factors that may allow interventions to be sustainable and effective despite changing circumstances: 1) continued learning and problem solving, 2) ongoing adaptation of interventions with a primary focus on fit between interventions and multi-level contexts, and 3) expectations for ongoing improvement as opposed to diminishing outcomes over time.


- This article proposes methods for blending design components of clinical effectiveness and implementation research. Such blending can provide benefits over pursuing these lines of research independently. For example, more rapid translational gains, more effective implementation strategies, and more useful information for decision makers.

- This is the seminal publication of the Consolidated Framework for Implementation Research (CFIR), see also cfirguide.org for more details and for guidance on use of the CFIR framework.


- This article describes the PRISM DIS framework—A comprehensive approach to implementation science. PRISM extends RE-AIM by incorporating concepts from Diffusions of Innovation theory and other models that emphasize the importance of context from the perspectives of intervention staff and participants, as well as the importance of building partnerships, and planning for program sustainability.


- This article proposes necessary and recommended criteria for pragmatic measures, provides examples of projects to develop and identify such measures, addresses potential concerns about these recommendations, and identifies areas for future research and application.


- This article addresses the vast gap between current knowledge and practice in the area of dissemination and implementation research. Terminology, examples of successful applications of this research, key sources of support, and directions and opportunities for future advances are provided.


- Summarizes the current concepts and evidence to guide knowledge translation activities and provides a Canadian (and European) perspective on the translation of new clinical knowledge into improved health. Addresses 5 key questions: what should be transferred; to whom should research knowledge be transferred; by whom should research knowledge be transferred; how should research knowledge be transferred; and, with what effect should research knowledge be transferred?


- This article describes the Veterans Health Administration (VHA) Quality Enhancement Research Initiative (QUERI) that has supported more rapid implementation of research into clinical practice since 1998. Grounded in implementation science and evidence-based policy, QUERI serves as an example of how to operationalize core components of a Learning Health Care System, notably through rigorous evaluation and scientific testing of implementation strategies to ultimately reduce variation in quality and improve overall population health.


- This article gives guidance on how to use an improved, validated version, PRECIS-2, which has been developed with the help of over 80 international trialists, clinicians, and policy makers. Keeping the original simple wheel format,
PERCIS-2 now has 9 domains scored from 1 (very explanatory) to 5 (very pragmatic), to facilitate domain discussion and consensus.


- This article proposes a heuristic, working “taxonomy” of 8 conceptually distinct implementation outcomes—acceptability, adoption, appropriateness, feasibility, fidelity, implementation cost, penetration, and sustainability—along with their nominal definitions.


- This article describes key ingredients to getting a dissemination and implementation research proposal funded.


- The StaRI criteria provide guidance for the outcomes that should be reported in D&I research manuscripts.

**Recommended Web sites and On-line Resources**


In addition webinars, examples of successful D&I grants, List of Research Tested Intervention Programs.


Society for Implementation Research Collaboration (SIRC). National society that facilitates communications and collaborations among implementation science research teams, researchers, and community members:

https://societyforimplementationresearchcollaboration.org/.

University of Colorado Program in Dissemination and Implementation Science, including access to interactive tools and e-books:


Interactive e-learning books on DIS basics and terms:


Resources on using the Pragmatic Explanatory Continuum Indicator Summary tool to assist research trialists to portray visually how pragmatic or explanatory their trial design is:


Washington University center for multiple resources and activities related to DIS, including trainings and talks: https://publichealth.wustl.edu/centers/dissemination-implementation/.