



D&I SCIENCE

The Ohio State University

Foundational Readings and Resources for Dissemination and Implementation Science

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Introductions To Implementation Science

- 1. Implementation Science: What is it and why should I care?**
Bauer, M. S., & Kirchner, J. A. (2019), *Psychiatry Research*, (April).
<https://doi.org/10.1016/j.psychres.2019.04.025>
- 2. Implementation Science, Developing the Ethics of Implementation Research in Health**
Gopichandran, V., Luyckx, V. A., Biller-Andorno, N., Fairchild, A., Singh, J., Tran, N., ... Vahedi, M. (2016). 11(161).
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-016-0527-y>
- 3. A New Lane for Science**
Proctor, E. K., & Geng, E. (2021). *Science*, 374(6568), 659-659.
https://www.science.org/doi/10.1126/science.abn0184?url_ver=Z39.882003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed
- 4. Scoping Implementation Science for the Beginner: Locating yourself on the “subway line” of translational research.**
Lane-Fall, MB, Curran, G.M, & Beidas, R.S. (2019). *BMC Medical Research Methodology*. 19:133.
<https://bmcmmedresmethodol.biomedcentral.com/articles/10.1186/s12874-019-0783-z>
- 5. Implementation Research in Mental Health Services: an emerging science with conceptual, methodological, and training challenges**
Proctor, E. K., Landsverk, J., Aarons, G., Chambers, D., Glisson, C., & Mittman, B. (2009). *Administration and Policy in Mental Health*, 36(1), 24– 34.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3808121/>

General Websites

- 1. University of Washington Implementation Science Resource Hub**
<https://impsciuw.org/>
- 2. Washington University in St. Louis Implementation Research Toolkits**
<https://implementationresearch.wustl.edu/support-your-research/toolkits/>
- 3. Center for Research in Implementation Science and Prevention (CRISP) at UC Denver**
<https://medschool.cuanschutz.edu/accords/cores-and-programs/dissemination-implementation-science-program/resources-services#Resources-Services-PresentationsRecordings>

Implementation Strategies



- 1. A Refined Compilation of Implementation Strategies: Results From the Expert Recommendations for Implementing Change (ERIC) Project**
Powell, B. J., Waltz, T. J., Chinman, M. J., Damschroder, L. J., Smith, J. L., Matthieu, M. M., ... Kirchner, J. E. (2015). *Implementation Science: IS*, 10(1), 21.
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-015-0209-1>
- 2. Implementation strategies: Recommendations for specifying and reporting.**
Proctor, EK., Powell, BJ, McMillen, J.C. (2013). *Implementation Research*, 8:139.
<https://implementationscience.biomedcentral.com/articles/10.1186/1748-5908-8-139>
- 3. Enhancing the Impact of Implementation Strategies in Healthcare: A Research Agenda.**
Powell, B. J., Fernandez, M. E., Williams, N. J., Aarons, G. A., Beidas, R. S., Lewis, C. C., ... Weiner, B. J. (2019). *Frontiers in Public Health*, 7, 3.
<https://www.frontiersin.org/articles/10.3389/fpubh.2019.00003/full>

Research Design and Methods



- 1. Effectiveness-Implementation Hybrid Designs: Combining Elements of Clinical Effectiveness and Implementation Research to Enhance Public Health Impact**
Curran, G. M., Bauer, M., Mittman, B., Pyne, J. M., & Stetler, C. (2012). *Medical Care*, 50(3), 217–26
<https://pubmed.ncbi.nlm.nih.gov/22310560/>
- 2. Variation in Research Designs Used to Test the Effectiveness of Dissemination and Implementation Strategies: A Review**
Mazzucca, S., Tabak, R. G., Pilar, M., Ramsey, A. T., Baumann, A. A., Kryzer, E., ... Brownson, R. C. (2018). *Frontiers in Public Health*, 6(February), 1–10.
<https://www.frontiersin.org/articles/10.3389/fpubh.2018.00032/full>
- 3. Qualitative Methods in Implementation Science**
(QUALRIS) Report
<https://cancercontrol.cancer.gov/sites/default/files/2020-09/nci-dccps-implementationscience-whitepaper.pdf>

Theories, Models and Frameworks

1. **Making Sense of Implementation Theories, Models and Frameworks**
Nilsen, P. (2015). Implementation Science, 10(1), 53.
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-015-0242-0>
2. **Dissemination and Implementation Models in Health Research and Practice**
<https://dissemination-implementation.org/>
3. **Consolidated Framework for Implementation Research**
<https://cfirguide.org/>

Implementation Outcome

1. **Outcomes for Implementation Research: Conceptual Distinctions, Measurement Challenges, and Research Agenda.**
Proctor, EK et al (2011). Administration and Policy in Mental Health, 38: 65-76.
<https://pubmed.ncbi.nlm.nih.gov/20957426/>
2. **Six practical recommendations for improved implementation outcomes reporting.**
Lengnick-Hall, R., et al (2022). Implementation Science, 17(1),1-8.
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-021-01183-3>

Equity

1. **Reframing Implementation Science to Address Inequities in Healthcare Delivery.**
Baumann, A. A., & Cabassa, L. J. (2020). BMC Health Services Research, 20(1), 1–9.
<https://doi.org/10.1186/s12913-020-4975-3>
2. **Application of an Antiracism Lens in the Field of Implementation Science (IS): Recommendations for reframing implementation research with a focus on justice and racial equity.**
Shelton, R. C., Adsul, P, Oh, A., Moise, N., & Griffith, D. M. (2021). Implementation Research and Practice, 2,
<https://journals.sagepub.com/doi/full/10.1177/26334895211049482>

3. **Implementation science should give higher priority to health equity.**
Brownson, R. C., Kumanyika, S. K., Kreuter, M. W., & Haire-Joshu, D. (2021). *Implementation Science*, 16(1), 1-16
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-021-01097-0>

Adaptation

1. **A two-way street: bridging implementation science and cultural adaptations of mental health treatments.**
Cabassa, L. J., & Baumann, A. A. (2013). *Implementation Science: IS*, 8(1), 90.
<https://implementationscience.biomedcentral.com/articles/10.1186/1748-5908-8-90>
2. **The FRAME: an expanded framework for reporting adaptations and modifications to evidence-based interventions.**
Stirman, S. W., Baumann, A. A., & Miller, C. J. (2019). *Implementation Science*, 14(1), 1-10.
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-019-0898-y>

Books

1. **Dissemination and implementation research in health: translating science into practice.**
Brownstone RC, Colditz Ga, Proctor EK, eds. Oxford University Press, 2018
2. **Handbook on Implementation Science.**
Nilsen, P., Birken, S.A. (2000).
Northampton, MA: Elgar

Major Journals continued

2. **Implementation Science Communications**
<https://implementationsciencecomms.biomedcentral.com/>
3. **Implementation Research and Practice**
<https://journals.sagepub.com/home/irp>
4. **Global Implementation Research and Applications**
<https://www.springer.com/journal/43477>

Major Journals

1. **Implementation Science**
<https://implementationscience.biomedcentral.com/>

Membership Societies

1. **Society for Implementation Research and Collaboration (SIRC)**
<https://societyforimplementationresearchcollaboration.org/>
2. **Implementation Science Communications**
<https://implementationsciencecomms.biomedcentral.com>
3. **Global Implementation Society (GIS)**
<https://globalimplementation.org>

Major Conferences

1. **Annual Conference on the Science of Dissemination and Implementation Research in Health**
<https://academyhealth.org/DIScience>

Major Conferences continued

2. **Society for Implementation Research and Collaboration**
 (SIRC; biennial – next held in Sept. 2024 in Denver, CO)
3. **Global Implementation Society**
 (GIS; biennial - typically held outside of the US)

Funding

1. **NIH PAR-19-274**
 Dissemination and Implementation Research in Health (R01)
<https://grants.nih.gov/grants/guide/pa-files/PAR-19-274.html>

Dissemination and Implementation Science Toolkits



Toolkits from Academic Institutions

Academic institution	Toolkit link
Washington University in St. Louis	General D&I Research Toolkit Translating for Impact Toolkit
Harvard, The Morgan Institute, and The Implementation Science Center for Cancer Control Equity	Implementation Science Resource Navigator

Yale Center for Clinical Investigation, CARE: Community Alliance for Research and Engagement	<u>Beyone Scientific Publication: Strategies for Disseminating Research Findings</u>
University of Regina	<u>Exchanging Knowledge: A Research Dissemination Toolkit</u>
University of Minnesota	<u>Community-Centered Dissemination Toolkit</u>
University of Wisconsin-Madison	<u>D&I Health-Equity Focused Resources and Tools</u> <u>D&I Design for Equitable Dissemination</u>
Virginia Commonwealth University	<u>Create a Research Dissemination Plan</u>

Toolkits From Industry Leaders

Industry Leader	Toolkit link
The Center for Implementation	<u>Resources Implementation Science and Practice -The Center for Implementation</u>
Centre for Implementation Science, King's College London	<u>Implementation Outcome Repository</u>
Patient-Centered Outcomes Research Institute	<u>Implementation Outcome toolbox</u>
University of Kansas	<u>Community Tool Box</u>

Educational Opportunities



Formal Educational Opportunities (Certificates and Graduate Programs and Fellowships)

Institution	Opportunity link
Washington University in St. Louis	Degree and Certificate Programs Fellowships and Mentored Training
University of Colorado	D&I Graduate Certificate Program
University of Wisconsin-Madison	Certificate Programs
University of Texas at Houston	Dissemination and Implementation Certificate for Degree and Non-Degree Seeking Students
Boston University Center for Implementation and Improvement Sciences (CIIS)	CIIS Fellowship
University of California - San Francisco	Master's degree in clinical research Implementation Science Track Online Certificate in Implementation Science
New York University	Comparative Effectiveness and Implementation Research Training Program
University of Arkansas	Graduate Certificate in Implementation Science
University of Pennsylvania	Penn Implementation Science Certificate Program

Northwestern University	Dissemination & Implementation program
University of Maryland Graduate School	Implementation and Dissemination Certificate

Informal Educational Opportunities
(Trainings, Webinars, Seminars and Workshops)

Organization	Opportunity link
The Center for Implementation	Implementation Support Specialist Certificate
Active Implementation Research Network	Implementation Specialist I Course
Northwestern University	Brief Implementation Science Training Sessions
Washington University in St. Louis	Introductory Workshops Dissemination and Implementation Seminars
University of Colorado	Seminars and Workshop Archive
University of Wisconsin-Madison	Dissemination Research and Implementation Science Seminars Workshops, Short Courses and Other Training
University of Texas at Houston	Trainings and Workshops An Introduction to Dissemination and Implementation Research in Health Seminars and Workshops Archived Seminars

University of Pittsburgh	Implementation Science 101 Videos CTSA Compendium of D&I Catalogs
University of California - San Francisco	Implementation Science Short Course Implementation Science Mini-Course
University of Illinois	Works in Progress (WIP) monthly seminar via Zoom
Columbia	Implementation Science Seminar Series
UC San Diego	Dissemination and Implementation Science Center (DISC) events Dissemination and Implementation Science Center (DISC) YouTube Channel Seminar Archives, under "Education and Training" Tab UCSD ACTRI DISC's research publications catalog
Duke University	Implementation Science Research Collaborative (INTERACT) events
Albert Einstein College of Medicine	Implementation Science Grand Rounds (upcoming and past)
University of Cincinnati	CCTST Grand Rounds presentations
University of Iowa	Webinar Series and Workshops resource list
University of Pennsylvania	Implementation Science Institute annual four-day virtual course

Weill Cornell Medicine	Dissemination & Implementation Science: Works-in-Progress Group
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Non-Academic Training

Organization	Training link
Center for Prevention Implementation Methodology: D&I Science Trainings	Trainings — Center for Prevention Implementation Methodology for Drug Abuse and HIV (northwestern.edu)
Evidence Based Behavioral Practice	Online Training Modules

Study Guidance and Insight Opportunities



Consultations

1. [Washington University in St. Louis](#)
2. [University of Wisconsin-Madison](#)
3. [University of Pittsburgh](#)
4. [University of Illinois - Chicago](#)
5. [Columbia](#)
6. [UC San Diego \(free DISC membership required\)](#)
7. [Penn State](#)
8. [University of Cincinnati \(offered through Research Central, free membership required\)](#)
9. [University of Kansas Medical Center \(cost associated\)](#)
10. [UT Health San Antonio](#)