



Workshop Implementation Science Resources

Contents

Implementation Science: Introductory Sources	2
Implementation Strategies	2
Implementation Outcomes	3
Writing Implementation (vs. Effectiveness) Grants	3
Theory, Frameworks, Models	3
Demonstrating the Value of Implementation Science	3
Implementation Science, Environmental & Occupational Health	3
Implementation Science, Health Equity & Anti-Racism.....	4
Policy Implementation	5
Sustainability.....	5
Additional Recommended Implementation Science Resources	6

Please note that this list is not a comprehensive list of implementation science resources but a smaller set of resources to introduce workshop participants to key topics.



Implementation Science: Introductory Sources

1. Lane-Fall, M.B., Curran, G.M. & Beidas, R.S. Scoping implementation science for the beginner: locating yourself on the “subway line” of translational research. *BMC Med Res Methodol* 19, 133 (2019). <https://doi.org/10.1186/s12874-019-0783-z>
2. [Training Institute for Dissemination and Implementation Research in Cancer \(TIDIRC\) OpenAccess](#) (content is not entirely specific to cancer – the video introduction by David Chambers is an excellent place to start)
3. Curran GM. Implementation science made too simple: a teaching tool. *Implement Sci Commun.* 2020;1:27. Published 2020 Feb 25. doi:10.1186/s43058-020-00001-z (*Great framework for using non-scientific language to introduce the field*)
4. Bauer MS, Kirchner J. Implementation science: What is it and why should I care? *Psychiatry Res.* 2020 Jan;283:112376. doi: 10.1016/j.psychres.2019.04.025. Epub 2019 Apr 23. PMID: 31036287.
5. Bauer MS, Damschroder L, Hagedorn H, Smith J, Kilbourne AM. An introduction to implementation science for the non-specialist. *BMC Psychol.* 2015 Sep 16;3(1):32. doi: 10.1186/s40359-015-0089-9. PMID: 26376626; PMCID: PMC4573926.
6. Brownson RC, Colditz GA, Proctor EK, eds. *Dissemination and Implementation Research in Health.* 2nd ed. New York, NY: Oxford University Press; 2017.
7. Gila Neta, Ross C Brownson, David A Chambers, Opportunities for Epidemiologists in Implementation Science: A Primer, *American Journal of Epidemiology*, Volume 187, Issue 5, May 2018, Pages 899–910, <https://doi.org/10.1093/aje/kwx323>
8. [What is Implementation Science Website](#) (University of Washington)
9. [Implementation Science at a Glance](#) – National Cancer Institute

Implementation Strategies

1. Powell BJ, Waltz TJ, Chinman MJ, et al. A refined compilation of implementation strategies: results from the Expert Recommendations for Implementing Change (ERIC) project. *Implement Sci.* 2015;10:21. Published 2015 Feb 12. doi:10.1186/s13012-015-0209-1
2. Waltz, T.J., Powell, B.J., Matthieu, M.M. et al. Use of concept mapping to characterize relationships among implementation strategies and assess their feasibility and importance: results from the Expert Recommendations for Implementing Change (ERIC) study. *Implementation Sci* 10, 109 (2015) <https://doi.org/10.1186/s13012-015-0295-0>

Advancing Environmental Health Equity Through Implementation Science



Implementation Outcomes

1. Proctor E, Silmere H, Raghavan R, et al. Outcomes for implementation research: conceptual distinctions, measurement challenges, and research agenda. *Adm Policy Ment Health*. 2011;38(2):65-76. doi:10.1007/s10488-010-0319-7

Writing Implementation (vs. Effectiveness) Grants

1. Proctor EK, Powell BJ, Baumann AA, Hamilton AM, Santens RL. Writing implementation research grant proposals: ten key ingredients. *Implement Sci*. 2012;7:96. Published 2012 Oct 12. doi:10.1186/1748-5908-7-96

Theory, Frameworks, Models

1. Nilsen P. Making sense of implementation theories, models and frameworks. *Implement Sci*. 2015;10:53. Published 2015 Apr 21. doi:10.1186/s13012-015-0242-0
2. [RE-AIM](#), [CFIR](#), [EPIS](#) websites are very user-friendly overviews of some widely used frameworks

Demonstrating the Value of Implementation Science

1. [Making a scientific miracle count in the real world](#) (Duke Alumni Magazine, Summer 2021 Issue) by Scott Huler
2. Kilbourne, A.M., Glasgow, R.E. & Chambers, D.A. What Can Implementation Science Do for You? Key Success Stories from the Field. *J GEN INTERN MED* 35, 783–787 (2020). <https://doi.org/10.1007/s11606-020-06174-6>

Implementation Science, Environmental & Occupational Health

1. PODCAST: [Using Implementation Science to Move Environmental Health Discoveries into the Real-world](#)
2. [NIEHS Implementation Science website](#)
3. Haque SS, Freeman MC. The Applications of Implementation Science in Water, Sanitation, and Hygiene (WASH) Research and Practice. *Environmental Health Perspectives* 129:6. CID: 065002 <https://doi.org/10.1289/EHP7762>
4. Guerin, R.J.; Harden, S.M.; Rabin, B.A.; Rohlman, D.S.; Cunningham, T.R.; TePoel, M.R.; Parish, M.; Glasgow, R.E. Dissemination and Implementation Science Approaches for Occupational Safety and Health Research: Implications for Advancing Total Worker Health. *Int. J. Environ. Res. Public Health* 2021, 18, 11050. <https://doi.org/10.3390/ijerph182111050>
5. Hering, J.G. Implementation Science for the Environment. *Environmental Science & Technology* 2018 52 (10), 5555-5560. DOI: 10.1021/acs.est.8b00874

Advancing Environmental Health Equity Through Implementation Science



Implementation Science, Health Equity & Anti-Racism

1. [Opportunities to Advance Health Equity through Implementation Science](#) by April Oh (NCI Implementation Science Team Blog, January 2021)
2. [Five Recommendations for How Implementation Science Can Better Advance Equity](#) by Kim DuMont, Allison Metz and Beadsie Woo (Academy Health Blog, April 2019)
3. [Bringing Equity to Implementation](#) (Stanford Social Innovation Review)
4. Shelton RC, Prajakta A, Oh A. Recommendations for Addressing Structural Racism in Implementation Science: A Call to the Field. *Ethn Dis.* 2021;31(Suppl 1): 357-364; doi:10.18865/ed.31.S1.357
5. Brownson, R.C., Kumanyika, S.K., Kreuter, M.W. et al. Implementation science should give higher priority to health equity. *Implementation Sci* 16, 28 (2021). <https://doi.org/10.1186/s13012-021-01097-0>
6. Shelton RC, Adsul P, Oh A, Moise N, Griffith DM. 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. *Implementation Research and Practice.* January 2021. doi:10.1177/26334895211049482
7. Baumann, A.A., Cabassa, L.J. Reframing implementation science to address inequities in healthcare delivery. *BMC Health Serv Res* 20, 190 (2020). <https://doi.org/10.1186/s12913-020-4975-3>
8. Woodward, E.N., Matthieu, M.M., Uchendu, U.S. et al. The health equity implementation framework: proposal and preliminary study of hepatitis C virus treatment. *Implementation Sci* 14, 26 (2019). <https://doi.org/10.1186/s13012-019-0861-y>
9. Allen, M., Wilhelm, A., Ortega, L. E., Pergament, S., Bates, N., Cunningham, B. (2021). Applying a race(ism)-conscious adaptation of the CFIR framework to understand implementation of a school-based equity-oriented intervention. *Ethnicity and Disease*, 31(1), 375-388.
10. Stanton MC, Ali SB, SUSTAIN the. A typology of power in implementation: Building on the exploration, preparation, implementation, sustainment (EPIS) framework to advance mental health and HIV health equity. *Implementation Research and Practice.* January 2022. doi:[10.1177/26334895211064250](https://doi.org/10.1177/26334895211064250)
11. Gaias, L. M., Arnold, K. T., Liu, F. F., Pullmann, M. D., Duong, M. T., Lyon, A. R. (2021). Adapting strategies to promote implementation reach and equity (ASPIRE) in school mental health services. *Psychology in the Schools*, 1–15.
12. Shelton, R. C., Chambers, D. A., Glasgow, R. E. (2020a). An extension of RE-AIM to enhance sustainability: Addressing dynamic context and promoting health equity over time. *Frontiers in Public Health*, 8, 134.

Advancing Environmental Health Equity Through Implementation Science



13. McNulty M, Smith JD, Villamar J, Burnett-Zeigler I, Vermeer W, Benbow N, Gallo C, Wilensky U, Hjorth A, Mustanski B, Schneider J, Brown CH. Implementation Research Methodologies for Achieving Scientific Equity and Health Equity. *Ethn Dis.* 2019 Feb 21;29(Suppl 1):83-92. doi: 10.18865/ed.29.S1.83. PMID: 30906154; PMCID: PMC6428169.
14. Snell-Rood C, Jaramillo ET, Hamilton AB, Raskin SE, Nicosia FM, Willging C. Advancing health equity through a theoretically critical implementation science. *Transl Behav Med.* 2021 Aug 13;11(8):1617-1625. doi: 10.1093/tbm/ibab008. PMID: 33904908; PMCID: PMC8367016.

Policy Implementation

1. National Cancer Institute – Policy Implementation Science Webinars
 - a. [Policy Implementation Science: A Critical Component of Evidence Translation](#)
 - b. [Improving the Use of Scientific Evidence in Policy Formulation](#)
 - c. [Adoption of Evidence-Based Policy in Governmental and Non-Governmental Sectors](#)
 - d. [Strategies for Integrating Evidence into Policy Implementation](#)
 - e. [Reflection on Policy Implementation Science: Growing the Field](#)
2. Emmons KM, Chambers DA. Policy Implementation Science - An Unexplored Strategy to Address Social Determinants of Health. *Ethn Dis.* 2021 Jan 21;31(1):133-138. doi: 10.18865/ed.31.1.133. PMID: 33519163; PMCID: PMC7843047
3. Purtle J, Peters R, Brownson RC. A review of policy dissemination and implementation research funded by the National Institutes of Health, 2007-2014. *Implement Sci.* 2016 Jan 4;11:1. doi: 10.1186/s13012-015-0367-1. PMID: 26727969; PMCID: PMC4700744

Sustainability

1. R. C. Shelton, B. R. Cooper and S. W. Stirman. The Sustainability of Evidence-Based Interventions and Practices in Public Health and Health Care. *Annual Review of Public Health* 2018 Vol. 39 Issue 1 Pages 55-76. Accession Number: 29328872 DOI: 10.1146/annurev-publhealth-040617-014731.
2. Washington University in St. Louis Sustainability Tool: <https://sustaintool.org/>
3. Chambers, D.A., Glasgow, R.E. & Stange, K.C. The dynamic sustainability framework: addressing the paradox of sustainment amid ongoing change. *Implementation Sci* 8, 117 (2013). <https://doi.org/10.1186/1748-5908-8-117>



Additional Recommended Implementation Science Resources

1. Blachman-Demner DR, Wiley TRA, Chambers DA. Fostering integrated approaches to dissemination and implementation and community engaged research. *Transl Behav Med.* 2017;7(3):543-546. doi:10.1007/s13142-017-0527-8 (see also the other articles in this special issue)
2. Curran GM, Bauer M, Mittman B, Pyne JM, Stetler C. Effectiveness-implementation hybrid designs: combining elements of clinical effectiveness and implementation research to enhance public health impact. *Med Care.* 2012;50(3):217-226. doi:10.1097/MLR.0b013e3182408812
3. [NCI Implementation Science Team website](#) is a great resource to learn about webinars, the annual Dissemination & Implementation Science (D&I) conference and additional resources/tools in the field. Be sure to sign-up for the monthly newsletter – See also the [Research Tools](#) and [Practice Tools](#) websites
4. NIH Office of Disease Prevention [Dissemination & Implementation \(D&I\) Research website](#)
5. [Implementation Research Logic Model – Center for Prevention Implementation Methodology for Drug Abuse and HIV](#)
6. M. E. Fernandez, G. A. ten Hoor, S. van Lieshout, S. A. Rodriguez, R. S. Beidas, G. Parcel, et al. Implementation Mapping: Using Intervention Mapping to Develop Implementation Strategies. *Frontiers in Public Health* 2019 Vol. 7. DOI: 10.3389/fpubh.2019.00158
7. Qualitative Methods in Implementation Science – National Cancer Institute: <https://cancercontrol.cancer.gov/sites/default/files/2020-09/nci-dccps-implementation-science-whitepaper.pdf>
8. Economic evaluation in implementation science - <https://www.biomedcentral.com/collections/EconomicEvaluation>
9. [Implementation science news, resources and funding for global health researchers](#) – NIH Fogarty International Center
10. Schloemer, T., Schröder-Bäck, P. Criteria for evaluating transferability of health interventions: a systematic review and thematic synthesis. *Implementation Sci* 13, 88 (2018). <https://doi.org/10.1186/s13012-018-0751-8>