

Implementation Science Resources Handout

EHE Pre-conference Training

Demystifying Implementation Science

Purpose: this resource document expands on some of the content not covered during the EHE pre-conference training. Here you will find all the references for the presentation,

Use: This document is to be used as an accompanying resource to the EHE pre-conference training titled *Demystifying Implementation Science*.

Contact information: please contact the ISCI team (isci@northwestern.edu) for questions related to this resource document.

Link to recorded presentation: <https://www.youtube.com/watch?v=UoqRgVH1T9E>

Additional Resources:

- ISCI IS Resource Repository: <https://hivimpsi.northwestern.edu/resources/>
- ISCI IS Curriculum for Practitioners:
 - Go to: <https://hivimpsi.northwestern.edu/>
 - On the top menu, click on Guided Help
 - Click on Guided Help Practitioners
- ISCI Decision Support for Researchers: *available soon here*
<https://hivimpsi.northwestern.edu/>
- JAIDS Special Issue, *Harnessing Implementation Science to Inform Strategies for Ending the HIV Epidemic in the United States*: <https://journals.lww.com/jaids/toc/2022/06001>

Section 1: Equitable Implementation in HIV prevention and treatment

Health Equity and HIV, slide 7

References:

- Treatment Action Group: A Brief Look at the HIV Testing and Prevention Toolbox. Retrieved from https://www.treatmentactiongroup.org/wp-content/uploads/2017/03/Toolbox_0.pdf

Leveraging Implementation Science to Address HIV Health Equity, slide 8

References:

- What is *Ending the HIV Epidemic in the US* (EHE)? <https://www.hiv.gov/federal-response/ending-the-hiv-epidemic/overview>
- Profile of the Portfolio of NIH-Funded HIV Implementation Research Projects to Inform Ending the HIV Epidemic Strategies https://journals.lww.com/jaids/Fulltext/2022/06001/Profile_of_the_Portfolio_of_NIH_Funded_HIV.4.aspx

Implementation Science (IS) Definitions and Foci, slide 10

References:

- National Institutes of Health. (2010). Dissemination and implementation research in health. Retrieved from <https://grants.nih.gov/grants/guide/pa-files/PAR-19-274.html>
- Recommendations for Addressing Structural Racism in Implementation Science: A Call to the Field <https://ethndis.org/edonline/index.php/ethndis/article/view/1506/2227>

Definitions: HIV implementation practitioner, slide 11

References

- ISCI Community and Implementation Practice Committee (CIPC) definition of HIV implementation practitioner definition <https://hivimpsci.northwestern.edu/>

How is IS similar to other fields? Slide 12-14

References

- Aligning implementation science with improvement practice: a call to action <https://implementationsciencecomms.biomedcentral.com/articles/10.1186/s43058-021-00201-1>
- Combining Improvement and Implementation Sciences and Practices for the Post COVID-19 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8423072/>
- Leveraging Implementation Science to Improve Cancer Care Delivery and Patient Outcomes <https://ascopubs.org/doi/10.1200/JOP.2017.024729>
- Program Performance and Evaluation Office, CDC <https://www.cdc.gov/evaluation/index.htm>

IS Teaching Tool, slide 15

References

- Implementation science made too simple: a teaching tool. <https://implementationsciencecomms.biomedcentral.com/articles/10.1186/s43058-020-00001-z>
- An Overview of Research and Evaluation Designs for Dissemination and Implementation <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5384265/>
- Using Implementation Science to Promote Integration and Sustainability of Community Health Workers in the HIV Workforce https://journals.lww.com/jaids/Fulltext/2022/06001/Using_Implementation_Science_to_Promote.9.aspx



Community Engagement & Co-Creation, slide 17

References

- Principles of Engagement
<https://www.feinberg.northwestern.edu/sites/cch/about/principles-of-engagement.html>
- A Multilevel Approach to Stakeholder Engagement in the Formulation of a Clinical Data Research Network
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6136953/?report=classic%E2%80%8B>

Equitable Implementation, slide 18

References

- Addressing Racism's Role in the US HIV Epidemic: Qualitative Findings from Three Ending the HIV Epidemic Projects
https://journals.lww.com/jaids/Fulltext/2022/06001/Addressing_Racism_s_Role_in_the_US_HIV_Epidemic.7.aspx
- 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
<https://journals.sagepub.com/doi/full/10.1177/26334895211049482>
- What is Health Equity?
<https://www.rwjf.org/en/library/research/2017/05/what-is-health-equity-.html>
- Equity vs Equality: What's the difference? Examples and Definitions
<https://unitedwaynca.org/blog/equity-vs-equality/>

Section 2: Implementation Science Methods

The Value of IS Frameworks (Theories, Models), slide 23

Web resources:

- ImpSci: Theories, Models, Frameworks, 9 min video
<https://www.youtube.com/watch?v=l-vn60Fhdjk>
- IS Models WebTool:
<https://dissemination-implementation.org/tool/explore-di-models/>

References:

- Making sense of implementation theories, models and frameworks
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-015-0242-0>

Planning for Implementation, slide 24

Reference:

- Real world examples of EPIS framework use
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-018-0842-6>

Web resources:

- EPIS website
<https://episframework.com/>

What works, where, and why: Determinants, slide 25

Reference:

- The Updated Consolidated Framework for Implementation Research: CFIR 2.0
<https://assets.researchsquare.com/files/rs-1581880/v1/556132ae-5de7-4902-9c33-9085ebca9d89.pdf?c=1651077534>
- Determinants of Implementation for HIV Pre-exposure Prophylaxis Based on an Updated Consolidated Framework for Implementation Research: A Systematic Review
https://journals.lww.com/jaids/Fulltext/2022/06001/Determinants_of_Implementation_for_HIV.28.aspx
- Provider Perspectives on Factors Affecting the PrEP Care Continuum Among Black Cisgender Women in the Midwest United States: Applying the Consolidated Framework for Implementation Research
https://journals.lww.com/jaids/Fulltext/2022/06001/Provider_Perspectives_on_Factors_Affecting_the.18.aspx

Web resources:

- Determinants of Implementation, 28 min video
<https://www.youtube.com/watch?v=xxEfnWaM9Q&feature=youtu.be>
- CFIR website
<https://cfirguide.org/>
- Full list of CFIR constructs
<https://cfirguide.org/constructs/>

The stuff we do: Implementation Strategies, slide 31

References:

- 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
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-015-0295-0>



HIV Implementation Science
Coordination Initiative

Northwestern



Institute for Sexual
and Gender Minority
Health and Wellbeing



Third Coast CFAR

UNIVERSITY OF CHICAGO
IN CHICAGO

- ERIC discrete implementation strategy compilation, strategy names and definitions
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-015-0209-1/tables/3>
- Finding what works: identification of implementation strategies for the integration of methadone maintenance therapy and HIV services in Vietnam
<https://link.springer.com/article/10.1186/s13012-016-0420-8>

Web resources

- Implementation Strategies, 23 min video
https://www.youtube.com/watch?v=b98Q1iNAjTY&list=PLLPcFiUjudPzdQpJiD0LkFj3faxh_iqtq&index=4
- ERIC-CFIR matching tool website, *the developers of this tool acknowledge that more research is still needed to better guide strategy choices and selection and encourage caution with the use of this tool.*
<https://cfirguide.org/choosing-strategies/>

Specifying & Reporting Strategies, slide 34

References

- Implementation strategies: recommendations for specifying and reporting
<https://implementationscience.biomedcentral.com/articles/10.1186/1748-5908-8-139>

Evaluating Implementation Efforts: Implementation Outcomes, slide 38

References

- Outcomes for implementation research: Conceptual distinctions, measurement challenges, and research agenda
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3068522/>

Implementation Outcomes Table

Implementation Outcomes	Level of Evaluation	Stage of Implementation	Methods
Acceptability	Consumer Provider	Throughout Especially Pre-Implementation	Qualitative Quantitative
Appropriateness	Consumer Provider	Throughout	Qualitative Quantitative
Feasibility	Provider	Throughout	Qualitative
Adoption	Provider	Post-Implementation	Quantitative
Fidelity	Provider	During Implementation Post-Implementation	Quantitative
Penetration	Consumer Provider	Post-Implementation	Quantitative
Cost	Provider	Throughout	Quantitative
Sustainability	Consumer Provider	Post-Implementation	Qualitative Quantitative

*See citation above for definitions of implementation outcomes

Web resources

- HIV Implementation Outcomes Crosswalk page
<https://hivimpscisci.northwestern.edu/implementation-outcomes-crosswalk/>

IS Equity Recommendations, slide 41

References

- Reframing implementation science to address inequities in healthcare delivery



<https://bmchealthservres.biomedcentral.com/articles/10.1186/s12913-020-4975-3>

Implementation Research Logic Model (IRLM), slide 42

References

- The Implementation Research Logic Model: a method for planning, executing, reporting, and synthesizing implementation projects
<https://implementationscience.biomedcentral.com/articles/10.1186/s13012-020-01041-8>

Web resources

- IRLM page, hosted by ISCI. Fillable templates can be found on this site
<https://hivimpisci.northwestern.edu/implementation-research-logic-model/>



HIV Implementation Science
Coordination Initiative

Northwestern



Institute for Sexual
and Gender Minority
Health and Wellbeing

