**2nd Annual GACD, Mahidol University & Health Systems Research Institute**

**Implementation Science Research Training School**

**5-9 November 2019, Bangkok, Thailand**

**Reading and Resources List**

**Pre-Departure Readings**

*Overview of Implementation Science*

* Bauer M. et al. (2015). An introduction to implementation science for the non-specialist. *BMC Psychology*. 16(3):32.
* Glasgow R, et al. (2012). National Institutes of Health Approaches to Dissemination and Implementation Science: Current and Future Directions. *American Journal of Public Health*, 102(7): 1274-1281.
* [A guide to implementation research in the prevention and control of noncommunicable diseases](https://www.who.int/ncds/governance/policies/NCD_MSA_plans/en/) *Chapter 2*

**Suggested Readings and Resources for Day 1**

***Identifying the Implementation Problem, Aims & Questions***

* [A guide to implementation research in the prevention and control of noncommunicable diseases](https://www.who.int/ncds/governance/policies/NCD_MSA_plans/en/) *Chapter 3.1*

Sections in Project Proposal template to be completed by the end of Day 1:

1. Implementation gap: What is you rimpementation problem?
2. Justifications for you implementation problem
3. Target groups and level/s of intervention
4. Key Stakeholders and their roles

**Suggested Readings and Resources for Day 2**

***Models, Theories and Frameworks: Design and Implementation***

* Nilsen P. (2015). Making sense of implementation theories, models and frameworks. *Implementation Science,* 10:53.
* Tabak R. et al. (2013). Models in dissemination and implementation research: useful tools in public health services and systems research. *Frontiers in Public Health Services and Systems Research,* 2:1.
* Feldstein, A. C., & Glasgow, R. E. (2008). A practical, robust implementation and sustainability model (PRISM) for integrating research findings into practice. *The Joint Commission Journal on Quality and Patient Safety*, *34*(4), 228-243.
* [Dissemination & Implementation Models in Health Research & Practice website](http://www.dissemination-implementation.org/)
* [Consolidated Framework for Implementation Research (CFIR) website](http://www.cfirguide.org/)

***Models, Theories and Frameworks: Evaluation***

* Glasgow R. et al. (1999). Evaluating the Public Health Impact of Health Promotion Interventions: The RE-AIM Framework. *American Journal of Public Health,* 89:9.
* [Normalization Process Theory](http://www.normalizationprocess.org/npt-toolkit/)

Sections in Project Proposal template to be completed by the end of Day 2:

6. Theoretical frameowk for the study and theories/models for mechanisms of change

**Suggested Readings and Resources for Day 3**

***Study Design***

* Brown, CH, et al. (2017). An overview of research and evaluation designs for dissemination and implementation. *Annual Review of Public Health,* 38:1-22.
* Creswell JW, Klassen AC, Plano Clark VL, and Smith KC for the Office of Behavioral and Social Sciences Research. *Best practices for mixed methods research in the health sciences*. (2011). National Institutes of Health.
* Curran G, et al. (2012). Effectiveness- implementation Hybrid Designs: Combining Elements of Clinical Effectives and Implementation Research to Enhance Public Health Impact. *Medical Care*, 50(3): 217-226.
* Palinkas L, et al. (2011). Mixed Method Designs in Implementation Research. *Administration and Policy in Mental Health,* 38:44-53.

***Study Measures***

* Lewis A, Procotr EK, Brownson R. (2018). Measurement Issues in Dissemination and Implementation Research (Chapter 14). Brownson R. et al. *Dissemination and Implementation Research in Health: Translating Science to Practice*. New York: Oxford University Press.
* Rabin B, et al. (2016). Measurement resources for dissemination and implementation research in health. *Implementation Science,* 11:42.
* Proctor E, et al. (2011). Outcomes for Implementation Research: Conceptual Distinctions, Measurement Challenges, and Research Agenda. *Administration and Policy in Mental Health*, 38:65-76.

***Grant Writing/Funding***

* Proctor, EK. et al. (2012). Writing implementation research grant proposals: 10 key ingredients. *Implementation Science*. 7:96.
* Brownson et al. (2015). Concocting that Magic Elixir: Successful Grant Application Writing in Dissemination and Implementation Research. *Clinical and Translational Science*, 8(6):710-716.

Sections in Project Proposal template to be completed by the end of Day 3:

1. Main Study questions and study design
2. Key features of intervention program
3. Evaluation frameowrk and key measures

**Suggested Readings and Resources for Day 4**

***Cultural Adaptation***

* Gonzales Castro F, Yasui M. (2017). Advances in EBI Development for Diverse Populations: Towards a Science of Intervention Adaption. *Prevention Science,* 18:623-629.
* Allen J, Shelton R, Emmons K, Linnan L. (2018). Fidelity and Its Relationship to Implementation Effectiveness, Adaptation, and Dissemination (Chapter 16). *Dissemination and Implementation Research in Health: Translating Science to Practice.* New York; Oxford University Press.
* Baumann A, Cabassa L, Wiltsey-Stirman S. (2018) Adaptation in Dissemination and Implementations Science (Chapter 17). Brownson R et al. *Dissemination and Implementation Research in Health: Translating Science to Practice.* New York; Oxford University Press.
* [A guide to implementation research in the prevention and control of noncommunicable diseases](https://www.who.int/ncds/governance/policies/NCD_MSA_plans/en/) *Chapter 3.2*

***Stakeholder Engagement & Community Participation***

* [NIH-Fogarty Toolkit for Engaging Diverse Stakeholder in Implementation Science](https://www.fic.nih.gov/About/center-global-health-studies/neuroscience-implementation-toolkit/Pages/default.aspx)
* [Community-Based Participatory Action Research Toolkit](http://researchtoolkit.org/)
* [A guide to implementation research in the prevention and control of noncommunicable diseases](https://www.who.int/ncds/governance/policies/NCD_MSA_plans/en/)

Sections in Project Proposal template to be completed by the end of Day 4:

1. Key Stakeholders and thier roles *(revisit)*
2. Evaluation frameowrk and key measures *(revisit)*

**Additional Resources and Readings for Implementation Science**

*General Websites*

* [ODP D&I Resources](https://prevention.nih.gov/resources-for-researchers/dissemination-and-implementation-resources)
* [NCI DCCPS Implementation Science Team](http://cancercontrol.cancer.gov/is/)
* [Cancer Control P.L.A.N.E.T. (Plan, Link, Act, Network with Evidence-based Tools)](http://cancercontrolplanet.cancer.gov/)
* [Implementation Science Journal](http://www.implementationscience.com/)
* [WHO Implementation Research Platform](http://www.who.int/alliance-hpsr/projects/implementationresearch/en/)
* [KT Canada](http://ktclearinghouse.ca/ktcanada)
* [Implementation Science Exchange](http://portals.tracs.unc.edu/index.php/d-iportal/d-i-portal)
* [WHO TDR Implementation Toolkit](http://www.who.int/tdr/publications/topics/ir-toolkit/en/)
* [Research-Tested Intervention Programs](https://rtips.cancer.gov/rtips/index.do)
* [ExpandNet Scale-Up](https://expandnet.net/)

*Textbooks*

* Brownson RC, Colditz GA, Proctor EK. (2018). *Dissemination and Implementation Research in Health: Translating Science to Practice (*2nd ed). New York: Oxford University Press, Inc.
* Straus S, Tetroe J, Graham I. (2013). *Knowledge Translation in Health Care: Moving from Evidence to Practice*. Wiley-Blackwell.
* Grol, R., Wensing, M., Eccles, M., & Davis, D. (Eds.). (2013). *Improving patient care: the implementation of change in health care*. John Wiley & Sons.

*More on Adaptation/Fidelity*

* Rabin BA, McCreight M, Battaglia C, et al. (2018). Systematic, Multimethod Assessment of Adaptations Across Four Diverse Health Systems Interventions. *Frontiers in Public Health,* 6:102.
* Stirman SW, Miller CJ, Toder K, Calloway C. (2013). Development of a framework and coding system for modifications and adaptations of evidence-based interventions. *Implementation Science*, 2013(8). 10.1186/1748-5908-8-65
* Gonzales N. (2017). Expanding the Cultural Adaptation Framework for Population-Level Impact. *Prevention Science*, 18(6) 689-693.

*More on Models/Frameworks/Theories*

* Damschroder L, et al. (2009). Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science*. Implementation Science*, 4:50.
* Aarons G, et al. (2014). Mixed-methods study of a conceptual model of evidence-based intervention sustainment across multiple public-sector service settings. *Implementation Science,* 9:183.
* Advanced Topics in Implementation Science Webinar Recordings on D&I Models:
  + [Consolidated Framework for Implementation Research](https://www.youtube.com/watch?v=KAJ-oCJyWcs) (CFIR) by Laura Damschroder
  + [Exploration, Preparation, Implementation, Sustainment (EPIS](https://www.youtube.com/watch?v=OYw6g0F1rTs)) by Greg Aarons
  + [Interactive Systems Framework (ISF)](https://www.youtube.com/watch?v=Ike0t6Fd_1k) by Abe Wandersman
  + [Knowledge to Action Framework (KTA)](https://www.youtube.com/watch?v=ASQhwjfOYhw) by Sharon Straus
  + [Promoting Action on Research Implementation in Health Services Framework (PARIHS](https://www.youtube.com/watch?v=t4Joti5RTzA)) by Alison Kitson & Gill Harvey

*More on Study Measures*

* Chaudoir SR, and Dugan AG. (2011). Dissemination and implementation measurement compendium: A systematic review of structural, organizational, provider, patient, and innovation level measures. Report submitted to Connecticut Institute for Clinical and Translational Science; Center for Health, Intervention, and Prevention; University of Connecticut.
* Martinez R, Lewis C, Weiner B. (2014). Instrumentation issues in implementation science. *Implementation Science,* 9:118

*Implemntation Strategies*

* Kirchner J, Waltz T, Powell BJ, Smith JL, Proctor EK. (2018). Implementation Strategies (Chapter 15). Brownson R et al. *Dissemination and Implementation Research in Health: Translating Science to Practice*. New York; Oxford University Press.
* Powell BJ, et al. (2015). A refined compilation of implementation strategies: results from the Expert Recommendations for Implementing Change (ERIC) project*. Implementation Science,* 12:10.
* Proctor EK, Powell BJ, McMillen JC. (2013). **Implementation strategies: recommendations for specifying and reporting.** *Implementation Science,* 8:139.
* Powell BJ, et al. (2017). Methods to Improve the Selection and Tailoring of Implementation Strategies. *Journal of Behavioral Health Services,* 44(2):177-194.

*Grantsmanship Websites*

* [OER Clinical Trial Requirements](https://grants.nih.gov/policy/clinical-trials.htm)
* [NCI implementation science sample grants](https://cancercontrol.cancer.gov/IS/sample-grant-applications.html)
* [NCI behavioral funding sample grants](https://cancercontrol.cancer.gov/brp/funding/sample-application.html)
* [UNC sample grants](https://tracs.unc.edu/index.php/services/proposal-development/sample-applications)
* [NIH anatomy of a specific aims page](http://www.biosciencewriters.com/NIH-Grant-Applications-The-Anatomy-of-a-Specific-Aims-Page.aspx)