

M19 - Introduction to Dissemination and Implementation Science

Spring 2016

- Time/Place:** Wednesdays 1 to 4 pm (February 3, 2016 to March 2, 2016)
Location: Richmond Teaching Room, Taylor Avenue Building, 2nd floor
- Instructors:** Ross Brownson, Enola Proctor
- Office hours:** By appointment
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- Target audience:** Researchers in clinical and population sciences; clinical training program participants; MSPH, MPH, and MSW students; prior research experience is helpful but not required.
- Prerequisites:** None
- Credits:** 1

Course overview

Description: This course provides an introduction to dissemination and implementation (D&I) science (i.e., translational research in health). Topics include the importance and language of D&I science; designs, methods, and measures; differences and similarities across clinical, public health, and policy settings; selected tools for D&I research and practice; and future issues.

Evaluation: Students will design a research/practice project in dissemination and implementation research, create a poster, and answer questions related to their project. Researchers might analyze a data set or develop a grant application. Practitioners might conduct a D&I project to improve patient care or population health.

Competencies:

1. Understand the importance and language of D&I science.
2. Explore the theories and frameworks that are commonly used in D&I research and practice.
3. Describe various study designs and measures that support D&I science.
4. Understand D&I methods and challenges across various settings and populations.
5. Understand how D&I science can further your research/practice plans and career.

Course format and requirements

Students are expected to attend all classes. Readings assigned for each class should be read ahead of time and students should be prepared to discuss readings in class and to be active participants in the learning process.

Readings: Selected chapters from: Brownson R, Colditz G, Proctor E, eds. *Dissemination and Implementation Research in Health: Translating Science to Practice*. New York: Oxford University Press; 2012. Other readings pertinent to each topic.

Grading and assignments: One class assignment that involves development of a D&I research project, presented as a poster.

Grading scale:

A	95-100%
A-	90-94.9%
B+	85-89.9%
B	80-84.9%
B-	75-79.9%
C+	70-74.9%
C	60-69.9%

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Week	Date	Instructor(s)	Topic	Readings
Class 1	February 3	Brownson, Proctor	Rationale for D&I research, overview of the field, continuum of translational research, language Initial group work for the final project	Core: Ch. 1: Colditz GA. The promise and challenges of dissemination and implementation research Ch. 2: Rabin B. Developing the terminology for dissemination and implementation research Woolf SH. The meaning of translational research and why it matters. <i>JAMA</i> 2008;299(2):211-3.
Class 2	February 10	Brownson, Proctor, Carpenter (at 1 pm), Tabak	Theories and frameworks in D&I research (with a policy example), clinical D&I research	Core: Damschroder LF, Aron DC, Keith RE, Kirsh SR, Alexander JA, Lowery JC. Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science. <i>Implementation Science</i> , 2009;4:50. Diner BM, Carpenter CR, O'Connell T, et al. Graduate medical education and knowledge translation: role models, information pipelines, and practice change thresholds. <i>Acad Emerg Med</i> . Nov 2007;14(11):1008-1014. Seow H, Phillips CO, Rich MW, Spertus JA, Krumholz HM, Lynn J. Isolation of health services research from practice and policy: the example of chronic heart failure management. <i>J Am Geriatr Soc</i> . Mar 2006;54(3):535-540. Tabak RG, Khoong EC, Chambers DA, Brownson RC. Bridging research and practice: models for dissemination and implementation research. <i>Am J Prev Med</i> . Sep 2012;43(3):337-350. Additional:

				Neta G, Glasgow RE, Carpenter CR, Grimshaw JM, Rabin BA, Fernandez ME, et al. A Framework for Enhancing the Value of Research for Dissemination and Implementation. <i>Am J Public Health</i> . 2014 Jan;105(1):49-57.
Class 3	February 17	Proctor, Moreland-Russell (1 st), Lobb	Study designs, measures, partnerships, sustainability	<p>Core: Ch. 12: Landsverk J. Design and analysis of dissemination and implementation research Johnson KE, Tachibana C, Coronado GD, Dember LM, Glasgow RE, Huang SS, et al. A guide to research partnerships for pragmatic clinical trials. <i>BMJ</i>. 2014;349:g6826. Luke DA, Calhoun A, Robichaux CB, Elliott MB, Moreland-Russell S. The Program Sustainability Assessment Tool: a new instrument for public health programs. <i>Prev Chronic Dis</i>. 2014;11:130184 Scheirer MA, Dearing JW. An agenda for research on the sustainability of public health programs. <i>Am J Public Health</i>. 2011;101(11):2059-2067</p> <p>Additional: Calhoun A, Mainor A, Moreland-Russell S, Maier RC, Brossart L, Luke DA. Using the Program Sustainability Assessment Tool to assess and plan for sustainability. <i>Prev Chronic Dis</i>. 2014;11:130185. Palinkas LA. Qualitative and mixed methods in mental health services and implementation research. <i>J Clin Child Adolesc Psychol</i>. 2014;43(6):851-61. Ch. 13: Proctor. Measurement issues in dissemination and implementation research</p>

Class 4	February 24	Proctor, Brownson, Caburnay	Methods and challenges in public health settings, D&I strategies	<p>Core: Kreuter MW, McBride TD, Caburnay CA, et al. What can health communication science offer for ACA implementation? Five evidence-informed strategies for expanding Medicaid enrollment. <i>Milbank Q.</i> Mar 2014;92(1):40-62. Ch. 17: Stamatakis K. Community and public health settings Powell BJ, McMillen JC, Proctor EK, et al. A compilation of strategies for implementing clinical innovations in health and mental health. <i>Med Care Res Rev.</i> Apr 2011;69(2):123-157. Proctor EK, Powell BJ, McMillen JC. Implementation strategies: recommendations for specifying and reporting. <i>Implement Sci.</i> 2013;8:139.</p>
Class 5	March 2	Brownson, Proctor	Future issues and student presentations (posters) Build from worksheets completed in earlier sessions	<p>Core: Ch. 24: Brownson. The path forward in dissemination and implementation research Proctor EK, Powell BJ, Baumann AA, Hamilton AM, Santens RL. Writing implementation research grant proposals: ten key ingredients. <i>Implement Sci.</i> 2012;7:96.</p>