



Transforming Implementation & Improvement Into Science Educational Series

Session Title	“Designing an Implementation & Improvement Sciences Study”
Presentation Date	February 28 th 2018
Learning Objectives	<ul style="list-style-type: none"> • Identify key considerations for selecting the best study design for implementation and improvement sciences questions • Discuss the strengths and weaknesses of different study designs
Session Resources	
<p>An Introduction to Implementation Science for the Non-Specialist Bauer MS, Damschroder L, Hagedorn H, Smith J, Kilbourne AM. An introduction to implementation science for the non-specialist. <i>BMC Psychol.</i> 2015; 3(1):32.</p> <ul style="list-style-type: none"> • This article provides an overview of implementation science. Subsections focus on different types of evaluation designs, controlled implementation trials, and hybrid-effectiveness implementation designs. 	
<p>Designs for Dissemination and Implementation Strategies Brown CH, Curran G, Palinas L, et al. An overview of research and evaluation designs for dissemination and Implementation. <i>Annual Review of Public Health.</i> 2017;38:1-22.</p> <ul style="list-style-type: none"> • Members of a National Institutes of Health study design workgroup integrated their multidisciplinary knowledge on dissemination and implementation designs as well as evaluation strategies in this article. Eight types of study designs for testing implementation strategies are identified and described. 	
<p>Dissemination and Implementation Research Designs Toolkits Lewis E, Baumann A, Gerke D, et al. D&I Research Designs. St. Louis, MO: Washington University; 2017 July. Eight toolkits related to dissemination and implementation.</p> <ul style="list-style-type: none"> • This toolkit provides an introduction to dissemination and implementation science research designs. Toolkit diagrams are useful for determining which study design optimally fits research questions. Various experimental, quasi-experimental and observational study designs are defined with succinct definitions and exemplary study examples. 	
<p>Effectiveness-Implementation Hybrid Designs: Combining Elements of Clinical Effectiveness and Implementation Research to Enhance Public Health Impact 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. <i>Med Care.</i> 2012; 50(3):217-226.</p> <ul style="list-style-type: none"> • Hybrid designs dually focus on assessing clinical effectiveness and implementation outcomes. This article describes the rationale for using Type 1, Type 2 and Type 3 hybrid study designs. Real-world research examples are used to describe the utility of each study design. 	