



Collaborations for Health and
Empowered Community-based Scientists
(CHECS) Project

COURSE CATALOG

COURSE	OBJECTIVES	LENGTH
<p><u>Intersection of Quality Improvement (QI) and Research</u></p> <p>Presenter: Lisa Hirschhorn, MD MPH</p>	<ul style="list-style-type: none"> • Explore the differences between quality improvement and research and where they intersect. • Discuss implementation science, improvement science, as well as frameworks and models and how they can bridge the gap between QI and research. • Provide an overview of research study and evaluation designs. • Review real-life examples of transforming QI projects to research. 	90 min
<p><u>Partnering with Community to Improve Health</u></p> <p>Presenters: Claire Kohrman, PhD Mary Brown-Walker, NP</p>	<ul style="list-style-type: none"> • Define Community-Placed, Community-Based, and Community-Engaged Research. • Discuss benefits and challenges of community-engaged research. • Outline steps necessary to develop and implement community-engaged research. • Consider examples of different types of community-engaged research projects and their impact. 	90 min
<p><u>Introduction to Patient Centered Outcomes Research (PCOR): Developing a Study and Study Questions</u></p> <p>Presenter: Jonathan Tobin, PhD</p>	<ul style="list-style-type: none"> • Define PCOR and why this is important to CHCs. • Determine how to form a hypothesis. • Understand study design, human subjects research, and literature search basics 	90 min
<p><u>Patient Engagement in Selecting and Designing Interventions for Testing</u></p> <p>Presenters: Rosy Chang Weir, PhD Suzanne Schrandt, JD</p>	<ul style="list-style-type: none"> • Learn methods of patient engagement within research project life cycle • Define patient engagement principles and evaluation methods • Examine the patient perspective, patient engagement plan, and patient engagement principles. 	94 min

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<p>Enhancing Community Health Center PCOR Engagement (EnCoRE)</p> <p>Presenters: Michelle Jester, MA; Rosy Chang Weir, PhD</p>	<ul style="list-style-type: none"> • Review community engagement methods and models. • Discuss barriers to community engagement in research. • Identify potential selection bias in community engagement. 	80 min
<p><u>Navigating Community Data: HRSA's Universal Data System (UDS) and Current Population Health Tools</u></p> <p>Presenters: Michael Nudo, MNA, CNP; Andrew Hamilton, BSN, RN, MS</p>	<ul style="list-style-type: none"> • Describe the Learning Healthcare System and how it plays a role in quality improvement and research. • Provide an overview of HRSA's UDS Website and Mapper and demonstrate how to navigate tools to compare UDS performance measures at national, state, and local levels. • Explain how Community Health Centers can use population health tools to better understand their patient population and inform research to improve patient health outcomes. • Utilize a case-study throughout the session to demonstrate how these tools can support the development of research questions targeted to specific disease states. 	90 min
<p>Measurement, Measurement Error, and Descriptive Statistics</p> <p>Presenter: Vicki Young, PhD</p>	<ul style="list-style-type: none"> • Evaluate and discuss measurement, measurement error, and ways to reduce measurement error. • Describe descriptive statistic utilized in health services research 	66 min
<p>Sample Size, Power Calculations, and Sampling Methods</p> <p>Presenters: Mary Ann McBurnie, PhD; Jonathan Tobin, PhD</p>	<ul style="list-style-type: none"> • Determine how to test a hypothesis • Examine sampling methods and power calculations 	95 min

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<p>Research Ethics, IRB, and Good Clinical Research</p> <p>Presenters: Leah Zallman, MD, MPH; Rosy Chang Weir, PhD; Ho`oipo DeCambra, M.Ed.</p>	<ul style="list-style-type: none"> • Understand ethical challenges in community and patient-engaged research. • Examine Institutional Review Boards (IRB). • Recognize the importance of cultural competency in research 	86 min
<p>Study Design and Clinical Statistics</p> <p>Presenters: Vicki Young, PhD; Milton Eder, PhD</p>	<ul style="list-style-type: none"> • Differentiate between study designs • Interpret statistical and clinical significance, sensitivity, and specificity. • Review the development of a research project. 	88 min
<p>Basic Concepts in Biostatistics</p> <p>Presenter: Mary Ann McBurnie, PhD</p>	<ul style="list-style-type: none"> • Identify different data types and appropriate statistical tests. • Recognize when non-parametrics methods are preferred over parametrics. • Interpret statistical testing results. 	108 min
<p>Bioinformatics</p> <p>Presenters: Fred Rachman, MD; Heidi Crane, MD, MPH</p>	<ul style="list-style-type: none"> • Evaluate implementation of patient reported outcomes (PROs) in clinical care and research. • Discuss the use of Electronic Health Records (EHR) in research. • Demonstrate success and challenges of using big data. 	90 min
<p>Grant Planning and Writing</p> <p>Presenters: Leah Zallman, MD, MPH; Dale Fielder, MS; Danielle Lazar, AM</p>	<ul style="list-style-type: none"> • Demonstrate how to review a request for proposals (RFP). • Apply a step-wise approach to grant writing. • Recognize best practices and potential pitfalls of grant writing. 	89 min

COURSE	OBJECTIVES	LENGTH
<p>Budgeting, Workplans, and Timelines</p> <p>Presenters: Milton Eder, PhD Shalini Tendulkar, ScM, ScD</p>	<ul style="list-style-type: none"> • Explain the broader implications/importance of budgeting. • Understand the development of a research project budget, budget justification, workplan, and timeline 	<p>87 min</p>
<p>Planning Dissemination and Implementation</p> <p>Presenters: Jonathan Tobin, PhD Michelle Proser, MPP, PhD</p>	<ul style="list-style-type: none"> • Identify target audiences and appropriate communication channels for dissemination and implementation. • Build a dissemination plan • Interpret how to involve patients and clinicians in dissemination and implementation. 	<p>98 min</p>