Introduction to Implementation Science - Theory and Design

EPI 245 Fall 2020 (2 units)

Course Director: Adithya Cattamanchi, MD, MAS
Professor
Department of Medicine

OBJECTIVES

This course provides a foundation for students to design and evaluate strategies to accelerate the translation of evidence into practice, policy, and public health. This course will provide an introduction to the use of implementation science methods to identify and target barriers and enablers of the sustained uptake of proven health interventions. Concepts and methods covered include community engagement, individual and organizational behavior change theory, intervention design and evaluation frameworks, and study design. In addition to didactic work, scholars are guided through the creation of a protocol aimed towards facilitating uptake of their chosen health intervention. At the end of the course, students will be able to:

- Identify and justify health interventions that are ready for translation;
- Apply a conceptual framework for translating health interventions into practice, policy and public health;
- Apply theory and evidence to the design of more effective implementation strategies; and
- Evaluate and analyze implementation strategies using a combination of outcomes and techniques.

PREREQUISITES

Designing Clinical Research (EPI 202) or prior training in clinical research study design. This course will be most useful for students or health care professionals who are intending to translate some specific healthcare evidence into wider adoption in clinical practice or public health.

FACULTY

Course Director: Adithya Cattamanchi, MD, MAS
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Guest Lecturers:

Kevin Grumbach, MD
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Margaret Handley, PhD, MPH
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Charles McCulloch, PhD
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Weekly course content will be delivered via video lectures, case studies, and readings through the course CLE website. Students will post weekly assignments in online discussion forums, and provide/receive feedback through the online discussion forums and weekly real-time small group discussion sessions facilitated by course faculty. Real-time small group discussions will take place on Mondays from 10:30 AM to 12:00 PM, beginning September 21.

Required readings will be posted on the course website.

Evaluation of student performance will be based on successful completion of weekly homework assignments and a final project, as well as participation in online discussion forums and real-time small group discussion sessions. To pass the course, learners must:

- Post weekly assignments in the online discussion forums by the designated due date and time in 8 of 10 weeks;
- Provide thoughtful feedback via the online discussion forums to at least two others regarding their weekly assignments by the designated due date and time in 8 of 10 weeks;
- Attend and participate in at least 8 of the 10 real-time weekly small group discussion sessions;
- Submit a final completed protocol by the designated due date and time at the end of the course; and
- Submit a thoughtful critique of a peer’s final protocol by the designated due date and time at the end of the course.

This course is sponsored by the Training in Clinical Research (TICR) Program, and space is limited. Preference is given to UCSF-affiliated personnel. We regret that auditing in the classroom is not permitted.

To enroll in this course, please fill out and submit the application below. Please see our fees page for cost information. The deadline for application is September 7, 2020. Only one application needs to be completed for all courses desired during the quarter.

The application is best completed using the latest version of Firefox, Chrome or Safari.