



COMPARATIVE EFFECTIVENESS AND EVIDENCE BASED MEDICINE CERTIFICATE PROGRAM • ON CAMPUS

In order to develop better outcomes while containing costs, physicians, nurses and other health care professionals need evidence of the effectiveness of various treatment regimens and related health care decisions. **Comparative Effectiveness Research and Evidence Based Medicine** is a rapidly growing field whose objective is to assess how various medical interventions result in improved health care outcomes. This work also provides a framework for healthcare professionals that yields more efficient medical decisions, reduces costs, and guides long term policy.

Randomized controlled trials (RCTs) are currently used to determine the efficacy of a drug, device or treatment protocol under ideal conditions. The goal of **Comparative Effectiveness Research and Evidence Based Medicine** is to assess an array of treatment options to determine what works best for specific patient groups (e.g. the elderly, racial and ethnic minorities) in clinical situations.

Participants in this program acquire foundational skills and techniques that facilitate critical appraisal of existing multidisciplinary research literature, identify gaps, and then synthesize and evaluate more effective interventions.

Courses within this certificate program carry full graduate course credit at University of California, Irvine's School of Medicine and most can be directly applied to the school's MS degree in Biomedical and Translational Sciences (MS-BATS) with departmental approval. Enrollment in these courses is managed via ACCESS UCI through UCI Division of Continuing Education.

Offered in collaboration with
UCI School of Medicine

WHO SHOULD ENROLL

This certificate is ideal for practicing physicians, junior faculty in clinical departments, residents, fellows, 4th year medical students, and others who are interested in the conduct, interpretation and implementation of comparative effectiveness and evidence-based research to improve health care outcomes and the efficiency of medical care.

PROGRAM BENEFITS

- Define and conduct new studies that generate evidence to support outcomes-based evaluation of treatment regimens
- Utilize medical statistics, data analysis, data repositories, linear regressions, survival analysis, meta-analysis, and instrumental variable techniques to assess effectiveness of medical interventions
- Develop the skills required to lead multidisciplinary research teams
- Develop competency in study design, reflecting the breadth and complexity of comparative effectiveness
- Identify gaps between research and current clinical practices

CERTIFICATE ELIGIBILITY AND REQUIREMENTS

A certificate is awarded upon completion of the 4 required courses, 16 units (160 hours), with a grade of “B” or higher

in each course. Students may enter the program at any time, however *Introduction to Clinical Medical Statistics* or the equivalent is a prerequisite for *Comparative Effectiveness Research I* and *Measurement Science, Outcomes Research & Advanced Applied Methods*. All requirements must be completed within 5 years after the student enrolls in his/her first course.

PROGRAM FEES

Actual fees may differ from the estimate below. Fees are subject to change without prior notice.

Course Fees (4 required units)	\$6,020
Candidacy Fee	\$125
Textbook Fees	\$600
Total Estimated Cost	\$6.745

TO ENROLL

Visit ce.uci.edu/cer for full course descriptions, instructor biographies, and to enroll.

FOR MORE INFORMATION:

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COURSE#	REQUIRED COURSES	UNITS
BATS 245A	Comparative Effectiveness Research I	4
BATS 247	Measurement Science, Outcomes Research & Advanced Applied Methods	4
BATS 253	Disparities in Health and Healthcare	4
BATS 251	Quality, Efficacy, and Cost-Effectiveness	4

ADVISORY COMMITTEE

Ralph V. Clayman, M.D., Professor, Department of Urology, University of California, Irvine School of Medicine

Paul Curry, M.D., Past Chief of Staff, Hoag Memorial Hospital Presbyterian; Assistant Professor, Department of Anesthesiology and Perioperative Medicine, University of California, Los Angeles

Alan Goldin, M.D., Ph.D., Professor, Microbiology & Molecular Genetics, Department of Anatomy and Neurobiology, University of California, Irvine School of Medicine

Sheldon Greenfield, M.D., Donald Bren Professor of Medicine, Executive Director, Center for Health Policy Research, University of California, Irvine School of Medicine

Zeev Kain, M.D., Professor and Chair/Associate Dean for Clinical Operations, Department of Anesthesiology & Perioperative Care, University of California, Irvine School of Medicine

Sherrie H. Kaplan, Ph.D., MPH, Professor of Medicine, Assistant Vice Chancellor, Healthcare Evaluation and Measurement, Executive Co-Director, Health Policy Research Institute, University of California, Irvine School of Medicine

Scott Whitcup, M.D., Executive Vice President, Head R & D & Chief Scientific Officer, Allergan