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Evaluating and Applying *Comparative Effectiveness Research*

to Guide Prescription Medication Use



March 12 – 14, 2012

*A 2½-day program offered by
The Center for Health Outcomes &
PharmacoEconomic Research*



Program Overview

The Center for Health Outcomes and PharmacoEconomic Research is offering a 2½-day course on comparative effectiveness research (CER). The program will consist of lecture-based learning combined with hands-on activities and workshops.



Who Should Attend

- Those seeking to obtain a basic understanding of CER methods and those interested in taking it to the next level
- Persons responsible for interpreting and communicating comparative effectiveness messages to decision makers

Continuing Education



The University of Arizona College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. Credit for each individual session will be awarded to pharmacists completing that session. A total of 18.25 hours is available for participating in all sessions. Statements of credit will be sent via email within four weeks after the program.

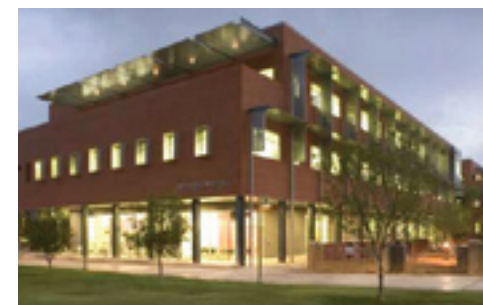
Venue

All sessions will be held in state-of-the-art facilities at The University of Arizona College of Pharmacy.

Lodging

Area hotels offer lodging at reasonable rates and close proximity to the College.

- Marriott University Park - 520-792-4100
- Arizona Inn - 800-933-1098
- Embassy Suites Paloma Village - 520-352-4000
- Windmill Inn - 520-577-0007



Drachman Hall-Pulido Center
1295 N Martin Ave, Tucson, AZ

PROGRAM AGENDA

MONDAY, MARCH 12 8AM – 5PM

Introduction to CER

Upon completion of this session

participants will be able to:

- Define and justify the use of CER
- Outline the legislative history of CER

ACPE Program Number:

0003-0000-12-009-L01-P (0.25 hour)

CER terms, concepts, and associated study designs

Upon completion of this session

participants will be able to:

- Identify characteristics of effectiveness trials
- Differentiate between 3 CER methods
- Define common terms used in CER

ACPE Program Number:

0003-0000-12-010-L01-P (1.25 hours)

Overview of statistical terms used in CER

Upon completion of this session

participants will be able to:

- Explain statistical techniques and how to interpret results for common methods used in CER
- Identify common errors when analyzing CER data

ACPE Program Number:

0003-0000-12-011-L01-P (1 hour)

Outcomes studied by CER and metrics used to report findings

Upon completion of this session

participants will be able to:

- Differentiate study endpoints used in CER
- Identify advantages and disadvantages of endpoints used in CER
- Explain the relationship between relative risk, odds ratios, and number needed to treat

ACPE Program Number:

0003-0000-12-012-L01-P (1.25 hours)

Using PICOTS to assess CER applicability

Upon completion of this session

participants will be able to:

- Define applicability of CER
- Explain the PICOTS framework
- Evaluate the applicability of CER using the PICOTS framework

ACPE Program Number:

0003-0000-12-013-L01-P (1.25 hours)

Heterogeneity: understanding important differences relevant to CER

Upon completion of this session

participants will be able to:

- Identify heterogeneity of treatment effects in clinical trials
- Distinguish between clinical, methodological, and statistical heterogeneity
- Analyze statistical tests used to evaluate heterogeneity in systematic reviews

ACPE Program Number:

0003-0000-12-014-L01-P (1.25 hours)

Introduction to the Effective Health Care Program

Upon completion of this session

participants will be able to:

- Explain the purpose of AHRQ's Effective Health Care Program
- Outline the processes used by the Effective Health Care Program
- Identify products of the Effective Health Care Program

ACPE Program Number:

0003-0000-12-015-L01-P (0.75 hours)

TUESDAY, MARCH 13 8AM – 5PM

Evaluating quality in randomized controlled trials

Upon completion of this session

participants will be able to:

- List the attributes of a high-quality study
- Propose methods for evaluating pragmatic trials
- Appraise the quality of pragmatic trials

ACPE Program Number:

0003-0000-12-016-L01-P (1.5 hours)

Evaluating observational studies

Upon completion of this session

participants will be able to:

- Summarize methods used to minimize bias in observational studies
- Propose methods for evaluating comparative effectiveness observational studies
- Appraise quality of comparative effectiveness observational studies

ACPE Program Number:

0003-0000-12-017-L01-P (1.25 hours)

Fundamentals of meta-analysis – combining studies and synthesizing evidence

Upon completion of this session

participants will be able to:

- List the attributes of a high-quality meta analysis
- Propose methods to evaluate statistical heterogeneity in meta-analyses

ACPE Program Number:

0003-0000-12-018-L01-P (1 hour)

Evaluating systematic reviews

Upon completion of this session

participants will be able to:

- List the attributes of a high-quality systematic review
- Appraise the quality of comparative effectiveness systematic reviews

ACPE Program Number:

0003-0000-12-019-L01-P (1 hour)

Evaluating strength of evidence

Upon completion of this session

participants will be able to:

- List methods to evaluate strength of evidence
- Evaluate the strength of a body of evidence

ACPE Program Number:

0003-0000-12-020-L01-P (0.75 hour)

Conducting effective literature searches for comparative effectiveness reviews

Upon completion of this session

participants will be able to:

- List 3 databases to use for conducting literature searches
- Describe sources of "grey" evidence
- Explain approaches to conducting evidence searches

ACPE Program Number:

0003-0000-12-021-L01-P (1 hour)

CER Translation: moving evidence from paper to patient

Upon completion of this session

participants will be able to:

- Describe how CER studies are used in health care benefit design
- Explain the role of "real world" data as a component of CER

ACPE Program Number:

0003-0000-12-022-L01-P (1 hour)

WEDNESDAY, MARCH 14 8AM – NOON

Understanding and applying propensity score techniques for observational data

Upon completion of this session

participants will be able to:

- Describe methods for selecting control subjects in observational studies
- Explain the purpose of propensity score analysis
- Evaluate findings from a retrospective CER study using propensity scoring

ACPE Program Number:

0003-0000-12-023-L01-P (1.25 hours)

The role of instrumental variables in conducting observational CER

Upon completion of this session

participants will be able to:

- Explain useful applications for instrumental variables
- List 2 challenges with instrumental variables

ACPE Program Number:

0003-0000-12-024-L01-P (1.5 hours)

Mixed treatment comparisons: approaches for indirect evidence assessment

Upon completion of this session

participants will be able to:

- Justify the use of indirect treatment comparisons
- List 3 key good research practices for indirect treatment comparisons
- Explain how mixed treatment comparisons borrow evidence across studies

ACPE Program Number:

0003-0000-12-025-L01-P (1 hour)



REGISTRATION FORM

Evaluating and Applying CER to Guide Prescription Medication Use

March 12-14, 2012

Online Registration:
www.pharmacy.arizona.edu/cerregister

The registration fee includes course materials, daily continental breakfasts, breaks, lunch, and pharmacy continuing education credit.

Registration fees paid to the University of Arizona Foundation are not considered a tax-deductible gift contribution.

Requests for refunds (less a \$200 administrative fee) will be honored until February 15, 2012.

NAME _____

DEGREE _____

POSITION _____

AFFILIATION _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

TELEPHONE _____

FAX _____

EMAIL _____

Registration Fee:

Industry **\$1950** Academia/Government **\$1500**

Please indicate method of payment:

Check made payable to **The University of Arizona Foundation**

Visa Mastercard American Express

CARD # _____ EXPIRES _____

CARDHOLDER'S NAME AS IT APPEARS ON CARD _____

Mail or fax registration form and payment to:

Ann Taylor, MPH, MCHES
The University of Arizona College of Pharmacy
HOPE Center
PO Box 210207 • Tucson, Arizona 85721-0207
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