



THE UNIVERSITY OF ARIZONA
R. KEN COIT COLLEGE OF PHARMACY

Center for Health Outcomes
& PharmacoEconomic Research



VIRTUAL
TRAINING PROGRAM IN
**Health Outcomes and
PharmacoEconomic Research Part 1**
APRIL 25-28, 2022

PROGRAM OVERVIEW

Professionals with an entry to intermediate knowledge level will benefit most from this 4-day program consisting of:

- Interactive Lectures
- Hands-On Workshops
- Case Studies
- Small Group Discussion

- Develop an understanding of HEOR concepts and methodologies
- Discover no-cost data resources for costs and outcomes
- Articulate the issues in value frameworks and real-world evidence
- Evaluate HEOR literature
- Conduct a decision analysis
- Interpret results of cost-effectiveness analyses
- Recognize good practice for budget impact analysis and simulate an example
- And more!

“This was the best course I have ever taken. I learned so much and recommend this to all interested in learning about HEOR”



HEOR TRAINING PROGRAM AGENDA

April 25-28, 2022

Monday, April 25 *(Pacific Time)*

9:00-9:10 Welcome

9:10-9:25 Pre-test

- Identify present knowledge base through pre-test

9:25-10:40 Pharmacoeconomic principles

Jason Hurwitz, PhD

- Describe basic terminology
- Discuss how a medication can be cost-effective
- Describe various study perspectives
- Distinguish among the types and uses of sensitivity analyses

10:40-11:00 Break

11:00-11:30 Pharmacoeconomic methodology

Amy Grizzle, PharmD

- Identify differences among various pharmacoeconomic methodologies, such as cost-effectiveness analysis, cost-benefit analysis, and cost-utility analysis
- Discuss when an average cost-effectiveness ratio is appropriate to use
- Calculate the incremental cost-effectiveness for one medication over another

11:30-12:15 Lunch break

12:15-12:45 Pharmacoeconomic methodology *(continued)*

12:45-1:45 Quick start guide to free HEOR data resources

Rhys Axon, MPharm, MS, PhD

- Identify publicly available data sources for costs and outcomes
- Describe strengths and weaknesses of data sources
- Query AHRQ's HCUP data

1:45-2:00 Complete daily evaluation

Tuesday, April 26 *(Pacific Time)*

8:50-9:00 Log-in & Announcements

9:00-10:15 Patient-reported outcomes (PRO) assessment

Shannon Vaffis, MPH, PMP

- Discuss the role of patient-reported outcomes assessment in the evaluation and approval of new product development
- Describe key components of the FDA regulatory guidance for patient-reported outcomes
- Complete and score the EQ-5D instrument

10:15-10:35 Break

10:35-Noon Decision analysis / Pharmacoeconomic models

Jason Hurwitz, PhD

- Describe the steps in building a decision tree
- Illustrate how the data elements entered into a decision tree should be analyzed
- Interpret findings from the decision analysis
- Apply a sensitivity analysis to vary model parameters

12:00-12:45 Lunch break

12:45-1:45 Interpreting cost-effectiveness results

Dan Malone, PhD, FAMCP

- Explain how to interpret scatter plots
- Discuss the use of cost-effectiveness acceptability curves

1:45-2:00 Complete daily evaluation

Wednesday, April 27 *(Pacific Time)*

8:50-9:00 Log-in & Announcements

9:00-10:15 Real-world evidence (RWE)

Ed Armstrong, PharmD

- Describe methodologies (pragmatic and observational studies) used to generate RWE, including associated advantages and disadvantages
- Explain how propensity score matching minimizes bias in observational research
- Describe how RWE is perceived in managed care environments and which study attributes increase usefulness and relevance to payers
- Discuss FDA's RWE Framework announced in 2019

10:15-10:35 Break

10:35-11:50 Budget impact analysis

Harman Dhatt, PhD, MPH

- Discuss ISPOR Principles of Good Practice for Budget Impact Analysis
- Outline differences between budget impact and pharmacoeconomic analyses
- Review the components considered in budget impact through a simulated example

11:50-12:35 Lunch break

12:35-1:50 Value frameworks

Dan Malone, PhD, FAMCP

- Describe initiatives by professional societies to create value frameworks
- Discuss limitations of value frameworks
- Discuss the impact of ICER recommendations for payers and manufacturers

1:50-2:00 Complete daily evaluation

Thursday, April 28 *(Pacific Time)*

8:50-9:00 Log-in & Announcements

9:00-10:30 Evaluating pharmacoeconomic studies

Jason Hurwitz, PhD and Amy Grizzle, PharmD

- Discuss key issues that should be considered when evaluating pharmacoeconomic literature
- Evaluate a pharmacoeconomic study to identify strengths and weaknesses in study methodology and conclusions

10:30-11:15 How to initiate your HEOR message with key stakeholders

Nicholas Tobey, MSOD

- Describe evidence-based techniques and models that translate to effective communication with healthcare audiences
- Develop an introduction statement to communicate HEOR messages with potential stakeholders

11:15-11:30 Break

11:30-12:10 Jeopardy game: What have you learned?

Jason Hurwitz, PhD and Amy Grizzle, PharmD

- Review key concepts learned during the program through a team-based quiz game
- Discuss remaining questions to solidify key concepts

12:10-12:25 Post-test (and Review session)

- Complete post-test to identify knowledge change

12:25-12:40 Complete daily evaluation

12:40-12:55 Review post-test results

- Discuss answers to post-test questions and address any remaining concerns over incorrect responses

Edward Armstrong, PharmD

Professor Emeritus
Department of Pharmacy
Practice & Science

Rhys Axon, MPharm, MS, PhD

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Senior Director, Eller Executive Education
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Shannon Vaffis, MPH, PMP

Graduate Research Assistant

PHARMACY CONTINUING EDUCATION

ACCREDITATION STATEMENT:

Banner Health is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.



“Thank you for a great program! I truly appreciate your great teaching and team of instructors, and look forward to staying in the loop with future programming.”



PROGRAM REQUIREMENTS

- Laptops installed with Excel are needed to complete some exercises
- Prior to the program, participants will be sent one pharmaco-economic article to evaluate in preparation for an interactive session

“I have been wanting to take this class for the last 3-4 years but taking a full week out to go to AZ is tough, so I jumped on the chance to take it virtually. I understand it loses something virtually but it may be a better fit for many folks like myself to get the ‘basics’ down. THANK YOU!”



OUR PROGRAM

Our annual program has been offered in person for over 20 years with attendance each year generated through recommendations from prior attendees. In response to the challenges of COVID-19, we have developed Part 1 and Part 2 virtual options until we can return to in-person programming.

This abbreviated, virtual program will get you off to a great start in the HEOR space. For those wanting more depth and additional topics, please consider attending Part 2 or an in-person program in the future. We will structure our agenda to allow you to join where you left off OR attend the full program at a discounted fee.

REGISTRATION

Register online at:

<https://part1heortraining.eventbrite.com>

Registration fee: \$1,000 Professionals
 \$750 Trainees

Group rates for 5 or more can be pre-arranged.

The registration fee for the Training Program in Health Outcomes and Pharmaco-economic Research includes all sessions, electronic training materials, pharmacy continuing education credit, and a certificate of completion.

Slides and other program materials will be available electronically prior to the program.

Refund Policy: A refund (less \$200 cancellation fee) will be available for cancellations received in writing by March 11, 2022.

Persons with a disability may request a reasonable accommodation, such as sign language interpreter, by contacting us at 520-626-3106 or HEORtraining@pharmacy.arizona.edu. Requests should be made as early as possible to allow time to arrange the accommodation.

FOR FURTHER INFORMATION:

HOPE Center

Center for Health Outcomes & PharmacoEconomic Research

HEORtraining@pharmacy.arizona.edu

520-626-3106

<https://www.pharmacy.arizona.edu/hope>