VIRTUAL TRAINING PROGRAM IN
Health Outcomes and Pharmacoeconomic Research Part 1
APRIL 24 – 27, 2023

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

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

- Develop an understanding of HEOR concepts and methodologies
- Discover no-cost data resources for costs and outcomes
- Articulate the issues in 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 a great overview of PE. I will be able to use what I learned to more fully understand studies that are done by my company.”
Monday, April 24 (Arizona 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

11:00-12:00  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

12:00-12:45  Midday break

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 25 (Arizona Time)

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

9:00-10:15  Patient-reported outcomes (PRO) assessment
  Shannon Vaffis, PhD, 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

10:35-12:00  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  Midday break

12:45-1:45  Interpreting cost-effectiveness results
  Dan Malone, PhD
  • Explain how to interpret scatter plots
  • Discuss the use of cost-effectiveness acceptability curves

1:45-2:00  Complete daily evaluation

Wednesday, April 26 (Arizona 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  Midday break

12:35-1:50  Value frameworks  
*Dan Malone, PhD*
- 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

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**Thursday, April 27 (Arizona Time)**

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

9:00-9:45  Getting HEOR results: Tailoring study designs to research questions  
*Selected Graduate Students*
- Review designs and data sources used to address questions in a variety of research studies
- Discuss why different methods and tools were selected and any limitations or challenges encountered

9:45-11:15  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

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
- Complete post-test to identify knowledge change

12:25-12:40  Complete daily and overall evaluation

12:40-12:55  Review post-test results
- Discuss answers to post-test questions and address any remaining concerns over incorrect responses
PHARMACY CONTINUING EDUCATION

The University of Arizona R. Ken Coit College of Pharmacy partners with Banner Health to provide continuing education for pharmacists.

“I thought the program was very well structured and delivered. The activities helped to apply concepts, the lecturers were knowledgeable and interactive despite the virtual setting and I would definitely recommend it.”

Edward Armstrong, PharmD
Professor Emeritus
University of Arizona
R. Ken Coit College of Pharmacy

Rhys Axon, MPharm, MS, PhD
Assistant Professor
University of Arizona
R. Ken Coit College of Pharmacy

Harman Dhatt, PhD, MPH
Director, Patient Reported Outcomes
Global Market Access
Janssen Pharmaceuticals

Amy Grizzle, PharmD
Associate Director
Center for Health Outcomes
and PharmacoEconomic Research

Jason Hurwitz, PhD
Assistant Director
Center for Health Outcomes
and PharmacoEconomic Research

Daniel Malone, PhD, FAMCP
Professor
University of Utah
College of Pharmacy

Professor Emeritus
University of Arizona
R. Ken Coit College of Pharmacy

Shannon Vaffis, PhD, MPH, PMP
Research Scientist II
Clinical Outcomes Solutions

And Selected Graduate Students
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.

REGISTRATION

Register online at:
HEORPart1April2023.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 Pharmacoeconomic 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 April 3, 2023

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