HEALTH ECONOMICS AND OUTCOMES RESEARCH

FELLOWSHIP PROGRAM
UNIVERSITY OF WASHINGTON
2022-2024
ABOUT OUR COMPANY

At AbbVie, we strive to make a remarkable impact on the lives of patients. Our focus is clear—we are here to serve patients and we are committed to doing right by them.

We are a global, research-based biopharmaceutical company committed to discovering, developing and delivering innovative new medicines with distinct and compelling benefits for people.

We are a passionate, diverse and inclusive organization with a culture that supports the best ideas, wherever they originate. AbbVie therapeutic areas include the following: immunology, oncology, neuroscience, eye care, virology, women’s health, other specialty. Treating ~60 conditions, across 30+ brands in more than 175+ countries.

We bring people together because we know that collaboration is the key to breaking barriers and exploring new frontiers in science. We take smart risks that lead to transformative breakthroughs and can change lives for people all over the globe.

Our commitment to making a remarkable impact doesn’t end at developing medicines; it begins there. We provide broad support to our patients and help address the health needs of underserved communities. We strive to protect our environment and to make a positive impact in the areas where we live and work.

WITH ALLERGAN, ABBVIE HAS AN EXPANDED GLOBAL FOOTPRINT OF STATE-OF-THE-ART FACILITIES

HEALTH ECONOMICS AND OUTCOMES RESEARCH (HEOR)

1. PRODUCT VALUE PROPOSITION
   ...outcomes research strategy based on product value, stakeholder needs & insights

2. EVIDENCE GENERATION AND TOOL DEVELOPMENT
   ...through clinical and health economics & outcomes research (HEOR) data

3. VALUE COMMUNICATION
   ...about evidence informing the value proposition to stakeholders
   ...informs health care decision making
ABOUT OUR SCHOOL

The University of Washington is a world-class leader in health sciences education and has been consistently listed in US News and World Report as one of the top 10 institutions for its graduate programs. The University is particularly noted for its strong research programs and since 1974 has received more federal funds for research and training than any other public university in the United States. It fosters a highly collegial atmosphere between departments and academic units, creating a particularly attractive environment for such partnerships between the public and private sectors.

The Comparative Health Outcomes, Policy, and Economics (CHOICE) Institute is housed within the University of Washington School of Pharmacy, which boasts nearly 125 years of academic and research success. Faculty in the program (1) provide advanced research training for graduate students, postdoctoral fellows and clinicians (PharmDs, MDs), (2) conduct rigorous scientific research in economic evaluations and outcomes of pharmaceuticals and other health technologies, and (3) translate and disseminate the results of research into clinical practice and healthcare policy, with the goal of improving patient care.

The CHOICE Institute faculty participating in the fellowship have been chosen both for their dedication to teaching and their excellence in research. Each is trained either as a health economist or health services researcher and all have an extensive history of effective economic evaluations and pharmacoepidemiologic research.
ABOUT OUR FELLOWSHIP

The University of Washington/AbbVie HEOR Fellowship is a two-year program that provides training and hands-on experience in a broad-range of health economics and outcomes research topics. The program is structured to allow fellows to gain proficiency in health outcomes strategy and research as conducted in both academic and pharmaceutical industry settings.

THE FELLOWSHIP PROGRAM

The University of Washington and AbbVie are pleased to offer two, 2-year HEOR Fellowship positions for the academic year 2022-2024. Fellows will spend their first year at the University of Washington (Seattle, WA), and the second year at AbbVie (Irvine, CA; Madison, NJ; or North Chicago, IL). The objective of the first year is to educate fellows on the principles and methods used in health economics and outcomes research. During the second year, fellows are provided with opportunities to gain practical knowledge and experience with the use of clinical, economic, and humanistic data by supporting the development and commercialization of pharmaceutical products. This will be accomplished by participating in work activities undertaken by the HEOR team.

Compensation includes a competitive stipend, basic medical insurance, conference attendance, relocation from Seattle to Irvine, and holiday/vacation time. A Master’s (MS) Degree is awarded upon completion of all course requirements and thesis project.
FELLOWSHIP STRUCTURE

FIRST YEAR OBJECTIVES

The objective of the first year is to provide the fellow with the research tools necessary for economic evaluation and policy assessment. The fellow will be given an overview of pharmaceutical economics and general health policy, and taught methods of economic assessment, health services research, epidemiology, clinical research design, and biostatistical analyses.

The fellow will be assigned a MS thesis project which is selected based on input from both AbbVie as well as the University of Washington mentors. Fellows are highly encouraged to complete their MS project during their first year. Additionally, fellows will also engage in ongoing projects with AbbVie throughout their first year, applying skills from previous pharmacy training as well as integrating new techniques developed from University of Washington courses. Applying learning to solve real-world problems is a constant focus of the fellowship.

The fellow’s actual course of study will be developed on an individual basis with the Program Director, Dr. Beth Devine, but will consist of courses in biostatistics, epidemiology, economic evaluations and outcomes research, and health and pharmaceutical policy.

AFTER COMPLETION OF THE FIRST YEAR, THE FELLOW WILL HAVE A CLEAR UNDERSTANDING OF:

• General principles of economics and in particular how economics influences the use, cost, and availability of pharmaceuticals.

• The complex structure of drug policy and how it determines relationships between consumers, health care providers, insurers, payers, and government agencies.

• The breadth and scope of analytical methods needed for the assessment of Patient Reported Outcomes (PROs), economic modeling, retrospective database studies, and observational studies.

• Formulary development, maintenance and evaluation in institutional, managed care, and state-level government programs.
SECOND YEAR OBJECTIVES

The second year of training will be at AbbVie with the HEOR department. This part of the program is designed to allow the fellow to learn about the role of economic evaluations and outcomes research in the drug development and commercialization process within the industry setting. The research may be on an existing or experimental product for a disease state that is of interest to AbbVie.

In addition to completing individual research project(s), fellows will participate in ongoing economic evaluations, outcomes research, and other projects in collaboration with the HEOR team. These experiences will provide the fellow with opportunities to interact with team members in other departments at AbbVie to learn how economic analyses and outcomes research are used throughout the pharmaceutical industry. Fellows will see firsthand how outcomes research is utilized to demonstrate the place of AbbVie products in treatment pathways and its value.
CURRENT FELLOWS

FIRST-YEAR FELLOWS

GINA AHMADYAR, PharmD

Gina is a first-year UW/AbbVie HEOR Postdoctoral Fellow. She earned her PharmD from the University of California, San Francisco (UCSF) School of Pharmacy where she was a student in the Health Services and Policy Research Pathway. During pharmacy school, she conducted a cost-effectiveness analysis on canagliflozin with respect to its cardiovascular benefits and risk for adverse events. She also worked at a health technology start-up company dedicated to improving patient health outcomes while reducing payer costs.

Gina is excited for the opportunity to collaborate with HEOR leaders at the CHOICE institute and AbbVie to continue her training in the field. For her thesis, she will be performing a retrospective claims analysis on the treatment patterns and economic burden of post-cataract macular edema.

ANNALIZA DOMINGUEZ, PharmD, MS

Annaliza is a first-year UW/AbbVie HEOR Postdoctoral Fellow. She earned her PharmD from the University of Southern California, School of Pharmacy where she also completed a master’s degree in healthcare decision analysis. During her time in pharmacy school, Annaliza collaborated on an NIH project at Children’s Hospital of Los Angeles which examined the cost-effectiveness of maxillary protraction treatments in children with cleft lip and palate. Through internships and rotational experiences, she also engaged in value-based projects with biopharmaceutical market access and medical device global health economics and reimbursement teams.

Annaliza is excited for the unparalleled opportunities for growth and professional development with the CHOICE Institute. She looks forward to building her technical skillset with support from the UW Faculty and AbbVie team. For her thesis, she will be using the Beauty 360 cross-sectional survey dataset to assess facial aesthetic concerns, desires, and treatment trends from patients and physicians.
CURRENT FELLOWS

SECOND-YEAR FELLOWS

KIM CAI, PharmD, MS

Kimberly earned her PharmD from the University of Maryland, School of Pharmacy. During her first year of the fellowship, Kim worked with Drs. Beth Devine, Melissa Barker-Haliski, Pranav Gandhi, and Kate Burslem to assess the incremental healthcare resource use and associated costs of chronic migraine relative to non-migraine controls, and episodic migraine relative to non-migraine controls.

Now in her second year, Kim continues to work in AbbVie’s migraine team. Kim is excited to continue her learning and develop her skills in health economics and outcomes research.

ABSTRACTS FROM FELLOWSHIP:

MANUSCRIPTS FROM FELLOWSHIP:

TAE JIN PARK, PharmD, MS

Tae Jin received his PharmD from the University of California, San Francisco (UCSF). During the first year of his fellowship, Tae Jin worked under the mentorship of Drs. Beth Devine, Ryan Hansen, and Sara Higa to examine the incremental costs and healthcare resource utilization associated with post-operative atrial fibrillation.

Currently, he is working with Darshini Shah and Patrick Gillard to support various projects in AbbVie’s toxin therapeutic space. Tae Jin is looking forward to expanding his skillset in HEOR.

ABSTRACTS FROM FELLOWSHIP:
1. Park T, Devine B. Cost-effectiveness of Dual Versus Triple Antithrombotic Therapy in AF and Recent PCI. Virtual ISPOR 2021, May 2021. (Online Poster)

MANUSCRIPTS FROM FELLOWSHIP:
PAST FELLOWS

BRENNAN BEAL
PharmD, MS  2019-2021
Quantitative Scientist
Flatiron Health, New York, NY

KEY RESEARCH FROM FELLOWSHIP

JAE HYUN LEE
PharmD, MS  2019-2021
Senior Manager, Health Economics and Outcomes Research
AbbVie, Irvine, CA

KEY RESEARCH FROM FELLOWSHIP
1. Lee J, Shewale A, Barthold D, Devine B. Geographic Variation in the Use of Triptans and Opioids for the Acute Treatment of Migraine Attacks. (In Progress)

ASHLEY KIM
PharmD, MS  2018-2020
Senior Manager, Health Economics and Outcomes Research
GRAIL, Inc., Menlo Park, CA

KEY RESEARCH FROM FELLOWSHIP

JAMIE TA
PharmD, MS  2018-2020
Associate Health Economist
Genentech, Inc., South San Francisco, CA

KEY RESEARCH FROM FELLOWSHIP

SARA HIGA
PharmD, MS  2017-2019
Senior Manager, Health Economics and Outcomes Research
Agios Pharmaceuticals, Cambridge, MA

KEY RESEARCH FROM FELLOWSHIP

CHIEMEKA IKE
MPH, PharmD, MS  2017-2019
Associate Director, Health Economics and Outcomes Research
EMD Serono, Inc., Rockland, MA

KEY RESEARCH FROM FELLOWSHIP

MICHAEL SERBIN
PharmD, MS  2016-2018
Director, Health Economics and Outcomes Research
Neurocrine Biosciences, San Diego, CA

KEY RESEARCH FROM FELLOWSHIP

SHEILA SHAPOURI
PharmD, MS  2016-2018
Health Economist, Evidence for Access (BioOncology)
Genentech, Inc., South San Francisco, CA

KEY RESEARCH FROM FELLOWSHIP
1. Shapouri S, Devine EB, Keyloun KR, Gillard PJ, Sabbatini AK, Bansal A. Predicting Hospitalizations and Returns to the Emergency Department 30-Days Post Emergency Department Discharge Among Patients with Acute Bacterial Skin and Skin Structure Infections.

SARAH BARADARAN
PharmD, MS  2015-2017
Associate Director, Patient Reported Outcomes
The Janssen Pharmaceutical Companies of Johnson & Johnson, Raritan, NJ

KEY RESEARCH FROM FELLOWSHIP
PAST FELLOWS

AMY TUNG
PharmD, MS  2015-2017
Director, Health Economics and Outcomes Research AbbVie, Irvine, CA

KEY RESEARCH FROM FELLOWSHIP

KATELYN KEYLOUN
PharmD, MS  2014-2016
Associate Director, Health Economics and Outcomes Research AbbVie, Irvine, CA

KEY RESEARCH FROM FELLOWSHIP

VANESSA SHIH
PharmD, MS  2014-2016
Associate Director, Health Economics and Outcomes Research AbbVie, Irvine, CA

KEY RESEARCH FROM FELLOWSHIP
1. Shih V, Campbell J, Devine EB. The Association between Onset of Vision Impairment and Functional Limitations and Informal Caregiving Requirements in Older Americans.

TRACY YEP
PharmD, MS  2013-2015
Utilization Management and Specialty Coordinator Kaiser Permanente of Washington, Seattle, WA

KEY RESEARCH FROM FELLOWSHIP
1. Yep T, Patel VD, Siejko JF, Devine EB. Comparing Total and Disease Related Healthcare Cost for Glaucoma Patients by Disease Severity: A Retrospective Claims Database Analysis. (In Progress)

ZSOLT HEPP
PharmD, MS  2012-2014
Director, Global Health Economics and Outcomes Research Seattle Genetics, Seattle, WA

KEY RESEARCH FROM FELLOWSHIP

CHRIS WALLICK
PharmD, MS  2012-2014
Principal Health Economist Genentech, Inc., South San Francisco, CA

KEY RESEARCH FROM FELLOWSHIP

VINCENT W. LIN
PharmD, MS  2010-2012
Senior Director, Health Economics and Real World Evidence Autolus Ltd, London, United Kingdom

KEY RESEARCH FROM FELLOWSHIP

PATRICK GILLARD
PharmD, MS  2009-2010
Executive Director, Health Economics and Outcomes Research AbbVie, Irvine, CA

KEY RESEARCH FROM FELLOWSHIP
KATHARINE S. GRIES
PharmD, MS, PHD  2008-2010
Director, Patient Reported Outcomes
The Janssen Pharmaceutical Companies of Johnson & Johnson, Raritan, NJ

KEY RESEARCH FROM FELLOWSHIP

JONATHAN H. WATANABE
PharmD, MS, PhD  2007-2009
Professor of Clinical Pharmacy, Associate Dean of Assessment and Quality UCI, Irvine, CA

KEY RESEARCH FROM FELLOWSHIP
APPLICATION ELIGIBILITY

Applicants for this fellowship must have a degree in pharmacy and have some research experience (preference will be given to those with a high academic standing). Excellent written and verbal communication skills are also essential. Applicants will be required to submit their curriculum vitae, a letter describing their career goals, and three letters of recommendation.

Selection of fellows will be made by a steering committee composed of the University of Washington faculty members and representatives from AbbVie.

DEADLINE
Interview Application Deadline
October 29, 2021

APPLICATION INFORMATION
Interested students must apply to the University of Washington Graduate School Online Interview. The online application process can be found at: https://sop.washington.edu/choice/graduate-education-training-programs/ms-heiro-fellowships/

ABBVIE FELLOWSHIP PROGRAMS

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<thead>
<tr>
<th>University</th>
<th>UNIVERSITY OF WASHINGTON The Comparative Health Outcomes, Policy, and Economics (CHOICE) Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Location</td>
<td>Seattle, WA</td>
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<tr>
<td>AbbVie Location</td>
<td>Irvine, CA; Madison, NJ; or North Chicago, IL</td>
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<tr>
<td>Program Length</td>
<td>2 years</td>
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<td>Programs Offered</td>
<td>Health Economics and Outcomes Research</td>
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<tr>
<td>Eligibility</td>
<td>Degree in Pharmacy</td>
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CONTACT INFORMATION
If you have any questions, please contact:

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