Health Economics & Outcomes Research Fellowships

2019
Novartis is a world leader in the research and development of products to protect and improve health and well-being.

Novartis was created in 1996 from the merger of the Swiss companies Ciba-Geigy and Sandoz. Novartis Pharmaceuticals is dedicated to discovering, developing, manufacturing, and marketing prescription drugs to prevent and cure diseases, to ease suffering and to enhance quality of life. Novartis' portfolio of products is directed toward cardiovascular, multiple sclerosis, dermatology, organ transplantation, oncology and hematology and other therapeutic areas.

Novartis, derived from the Latin novae artes, meaning “new skills,” is committed to using new skills to improve health and well-being through innovative products and services. Recognizing an increasing need for outcomes information, resources and expertise, the Health Economics & Outcomes Research (HE&OR) and Global Oncology Market Access and Policy (GMAP) departments at Novartis strive to be best-in-class in the generation of outcomes evidence that demonstrates value and optimizes patient access to Novartis products. This is accomplished through execution of burden and cost-of-illness studies, economic evaluations alongside clinical trials, comparative effectiveness research, cost-effectiveness analyses, prospective observational studies such as effectiveness registries, retrospective claims database analyses and patient-reported outcomes research.
Purpose
The Health Economics & Outcomes Research Fellowship Program provides training and hands-on experience in a broad range of health economics, outcomes research and comparative effectiveness research (CER) opportunities. There are 1-year and 2-year programs that are structured to allow the Fellows to gain proficiency in the field of health economics, outcomes research and CER as conducted in academic, managed care, hospital, health policy and/or pharmaceutical industry settings.

Overview
Novartis Pharmaceuticals Corporation is pleased to offer three 2-year Health Economics & Outcomes Research Fellowship positions and up to two 1-year Post-Doctoral Fellowships in 2018.

For the 2-year Fellowship positions, the objective of the first year is to educate the Fellow on general principles and methods applied in health economics and outcomes research. Concurrently, the Fellow will participate in ongoing outcomes research projects at the first-year Fellowship site. All Fellows will spend the second year of the Fellowship at the US-based headquarters of Novartis Pharmaceuticals Corporation located in East Hanover, New Jersey. While at Novartis, “field-based” training will be undertaken as part of the Fellowship training. Fellows will participate in health economics and outcomes research projects and learn how a pharmaceutical manufacturer uses clinical, economic and humanistic data to support the development and commercialization of its products. The Fellowship positions differ by first-year site, requirements and type of experience offered. Each position is described in this brochure. Compensation includes a competitive stipend, basic medical insurance, holiday and vacation time, plus other benefits associated with each specific academic/managed care institution.

Novartis will also offer up to two 1-year, full-time, Post-Doctoral Fellowship positions at Novartis Pharmaceuticals Corporation and/or Novartis Oncology. This Fellowship is open to candidates with a PhD (preferred) or Master’s in a health economics, outcomes research, or market access-related fields of study, such as Health Economics, Health Services Research, or Epidemiology. Fellows will be based at Novartis in East Hanover, New Jersey. Post-Doctoral Fellows will have training and hands-on experience in a broad range of health economics and outcomes research activities.

First Year Fellowship Sites for 2-Year Programs:
• Baylor Scott & White Health, Temple, TX/
The University of Texas at Austin, Austin, TX
• Department of Pharmaceutical Health Services Research, University of Maryland,
Baltimore, MD
• Jefferson College of Population Health,
Thomas Jefferson University, Philadelphia, PA

Contact
Please contact current Fellows for any site-specific questions (contact information provided on subsequent pages).

For inquiries regarding general application or interview process, please contact:

Slaven Sikirica, MSc
Associate Director,
Health Economics and Outcomes Research,
(862) 778-0883
heor.fellowship@novartis.com
Eligible candidates must have a doctorate in pharmacy or the combination of an undergraduate degree in pharmacy plus an advanced degree in health services research, public health, health policy, pharmacy, economics, medicine or other related area. Experience in, or at a minimum, exposure to some aspect of outcomes research, health economics or another related field of research is preferred.

Information

For questions or additional information, please contact:

Esther Yi, PharmD
Health Economics & Outcomes Research Fellow
Phone: (862) 778-7240
Email: estheryi@novartis.com

All questions regarding potential visa sponsorship should be directed to the collaborating institution.
Second-Year Fellow: Esther Jihee Yi, PharmD

Esther Jihee Yi is the second-year Health Economics & Outcomes Research (HE&OR) Fellow with Novartis Pharmaceuticals Corporation, Baylor Scott & White Health (BSWH) and the University of Texas at Austin.

Esther received her Doctor of Pharmacy degree from the University of California, San Francisco (UCSF) and brings to the program her valuable experiences from industry, managed care, health services and policy research, and regulatory sciences. Prior to the fellowship, she supported the Managed Care and Medical Communications department at Genentech to provide evidence-based literature and guideline insights in support of new indications for the Lung Cancer Franchise. Her regulatory experiences include planning the FDA Naloxone App Competition as well as collaborating with UCSF-Stanford CERSI to evaluate the role of patient preferences in medical device approval. At UCSF, Esther conducted a study evaluating the impact of a pro-generic policy in Argentina on pricing and utilization, which she presented at the 2017 ISPOR Latin America Conference in Sao Paulo, Brazil.

In her first year of the fellowship, Esther conducted various outcomes research projects, supported the P&T committee, and provided financial analyses for the operational decisions of BSWH. Her projects involved assessing the impact of a Value Based Insurance Design program for chronic, preventive medications on medication adherence and economic outcomes, evaluating the effect of chronic opioids on length of stay in patients with Clostridium Difficile, and analyzing the trends in hospital utilization of specialty drugs and inappropriate antibiotic prescribing.

In her second year at Novartis, she supports the US HE&OR Immunology, Hepatology and Dermatology therapeutic area and Innovations and Partnerships team by managing research studies and supporting product launches through active collaboration with internal and external stakeholders in concept development, protocol review and strategic planning. In addition, Esther is also working towards earning a Master’s degree in Pharmaceutical Sciences from the Division of Health Outcomes and Pharmacy Practice at the University of Texas at Austin.

First-Year Fellow: Nina Y. Kim, PharmD

Nina Kim is the first-year Health Economics & Outcomes Research (HE&OR) Fellow with Novartis Pharmaceuticals Corporation, Baylor Scott & White Health (BSWH), and the University of Texas at Austin.

Nina received her Doctor of Pharmacy degree from the University of Washington (UW) and her Bachelor’s degree in Economics from the University of California, San Diego with an interest in blending the two disciplines. She enters the fellowship with complementary experiences in research, industry, managed care, pharmacy benefit management, regulatory, hospital, and community pharmacy.

During her internship in Real World Informatics & Analytics at Astellas Pharma, she conducted real-world evidence analyses using large claim databases to support commercial strategies for pipeline products. As an intern in Immuno-Oncology Access Medical Information at Bristol-Myers Squibb, she developed dossier content for Opdivo® and Sprycel® by leveraging insights from cross-functional internal product strategy meetings and analyses on clinical, observational, and economic data. She also supported the Clinical Development team during her rotation at Allergan in the development of phase II clinical trial scales. At her rotation at Kaiser Permanente, she conducted a retrospective observational study comparing adherent to non-adherent patients receiving direct oral anticoagulant medications. Additional experiences include placing 2nd in the national AMCP P&T Competition and serving multiple terms as a board member of the National AMCP Student Pharmacist Committee and the local UW AMCP chapter.

During her first year, Nina conducts various outcomes research projects and supports the system’s accountable care organization in efforts to enhance quality metrics, optimize costs, and improve patient care. Some of her current projects include assessing inappropriate antibiotic prescribing, cascade screening for hereditary diseases, and patient satisfaction surveys. Additionally, Nina is pursuing a Master’s degree in Pharmaceutical Sciences from the Division of Health Outcomes and Pharmacy Practice at the University of Texas at Austin.
Health Economics & Outcomes Research Fellowships

Novartis Pharmaceuticals Corporation/
University of Maryland School of Pharmacy

Fellowship Sites & Preceptors

University of Maryland School of Pharmacy
Linda Simoni-Wastila, BSPharm, MSPH, PhD, Professor, Department of Pharmaceutical Health Services Research, Baltimore, MD

Novartis Pharmaceuticals Corporation
Slaven Sikirica, MSc, Associate Director, Health Economics and Outcomes Research, East Hanover, NJ

The University of Maryland School of Pharmacy

The University of Maryland School of Pharmacy, founded in 1841, is the fourth oldest school of pharmacy in the nation. The School of Pharmacy is one of seven professional schools and a graduate school located at the University of Maryland Baltimore, a thriving center for health services practice and research. Through its education, research and service programs, the School of Pharmacy strives to improve the health and well-being of society by aiding in the discovery, development and optimal use of medicines. One of three departments within the School, the Department of Pharmaceutical Health Services Research (PHSR) aims to improve the health of diverse populations through pharmaceutical health services research, education, service and community outreach.

PHSR scholarship spans the disciplines of behavioral sciences, pharmaco economics, pharmacoepidemiology and policy. Fifteen faculty members conduct research sponsored by federal and state governmental agencies, foundations and the pharmaceutical industry. Work clusters around issues inherent in the Department’s Centers: The Peter Lamy Center on Drug Therapy and Aging, and the Center on Drugs and Public Policy. Pharmaceutical Research Computing, a third Departmental center, provides computer programming, data management and analytic support to faculty, students and staff.

The Department houses numerous comprehensive databases, including the Chronic Condition Warehouse (CCW) 5% sample of Medicare beneficiaries linked to Part D data; the Medicare Current Beneficiary Survey; Medicaid and MAX data; and other proprietary and public data sets.

This two-year Fellowship focuses on the development of research skills relevant to health policy, with a particular focus on pharmaceutical policy. Fellows will spend the first year at the University of Maryland Baltimore honing research and policy skills and the second year at Novartis, where they will apply training and interests in an industry environment. Broad domains of interest include research focusing on medication management and outcomes in geriatric patients suffering multiple chronic illnesses, Medicare policy, long-term-care policy, mental health policy, patient-centered outcomes research and comparative effectiveness research. The successful applicant will work closely with a mentoring team to identify relevant research areas and training opportunities. The unique combination of rigorous academic training with industry experience in the second year will provide the fellow considerable experience to conduct policy-relevant health services and outcomes research.

Eligibility

Eligible candidates should have an advanced degree in health services research, public health, economics, epidemiology, pharmacy, pharmacy administration or a related discipline. A background in pharmacy or medicine and experience in outcomes research, health economics or another related field of research is preferred. Candidates must have excellent written and verbal communication skills.

Information

For questions or additional information, please contact:

Natalie Park, PharmD
Health Economics & Outcomes Research Fellow
Phone: (862) 778-7497
Email: natalie.park@novartis.com

All questions regarding potential visa sponsorship should be directed to the collaborating institution.
Second-Year Fellow: Natalie Park, PharmD

Natalie Park is the second-year Health Economics & Outcomes Research (HE&OR) Fellow with University of Maryland School of Pharmacy and Novartis Pharmaceuticals Corporation.

Natalie received her Doctor of Pharmacy degree from the Ohio State University College of Pharmacy where she completed additional coursework in biostatistics, SAS, epidemiology, and US healthcare policy and delivery system. During pharmacy school, Natalie had a number of valuable internship experiences including leading electronic medical record analyses at Celgene US HE&OR and generating value proposition and customer-facing tools at Precision for Value. Additionally, she served on the Ohio State student health insurance advisory committee, guiding medical and pharmacy benefit designs.

During her first year at University of Maryland Baltimore (UMB), Natalie took courses in research methodology including epidemiology and statistics. She conducted research projects involving retrospective claims databases from Medicare and commercial insurance and the results were presented at national and international conferences. Natalie also supported multiple grant applications to NIH.

In her second year at Novartis, Natalie supports the US HE&OR cardiovascular and metabolic business unit with pipeline and marketed products. She works cross-functionally with internal and external stakeholders throughout a project from concept and protocol development to publication planning. Some of the projects Natalie supports include chart review, claims analysis, and mortality risk model.

First-Year Fellow: Ngan Pham, PharmD

Ngan Pham is the first-year Health Economics & Outcomes Research (HE&OR) Fellow with the University of Maryland School of Pharmacy and Novartis Pharmaceuticals Corporation.

Ngan received his Doctor of Pharmacy degree and Certificate in Biomedical Regulatory Affairs from the University of Washington School of Pharmacy, where he also completed additional graduate level coursework in cost-effectiveness research, managed care, and health policy. During pharmacy school, Ngan was president of the Student Chapter of the Academy of Managed Care Pharmacy (AMCP) and executive committee member of the Pediatric Pharmacy Advocacy Group (PPAG). He also led a collaboration between AMCP and the graduate chapter of the International Society of Pharmacoeconomics and Outcomes Research (ISPOR). As an intern at Seattle Children’s Hospital, he supported the Investigational Drug Service and Pharmacy & Therapeutics committee. Additionally, he was involved in several research projects with HE&OR professors at the School of Pharmacy, including economic evaluations of biologics in the treatment of psoriasis and psoriatic arthritis.

Ngan continued his focus on HE&OR through his fourth-year clerkships. During a rotation at Kaiser Permanente of Washington, he assessed specialty medication utilization using EHR and internal warehouse databases. At the Center for Vaccine Innovation and Access at the nonprofit health organization, PATH, he developed a model to address the economic burden and seasonality of respiratory syncytial virus (RSV) infections in the pediatric population. Furthermore, he completed a research clerkship at the CHOICE Institute of the University of Washington, investigating endpoints used in performance-based risk-sharing agreements, and he presented his findings at ISPOR 2018 in Baltimore, MD.

As a first-year fellow at the University of Maryland, Ngan will continue his didactic training in HE&OR with coursework in research methods, biostatistics, and pharmacoconomics. He will be involved in research on health policy and geriatric pharmacy. His current projects include exploring clinical and qualitative outcomes of pharmacist interventions in opioid dependency, marijuana legalization, and antipsychotic utilization.
**Novartis Pharmaceuticals Corporation/Thomas Jefferson University, Jefferson College of Population Health**

**Fellowship Sites & Preceptors**

**Thomas Jefferson University**  
Vittorio Maio, PharmD, MS, MSPH, Research Professor, Director, Health Economics and Outcomes Research Fellowship, Jefferson College of Population Health, Thomas Jefferson University, Philadelphia, PA

**Novartis Pharmaceuticals Corporation**  
Slaven Sikirica, MSc, Associate Director, Health Economics and Outcomes Research, East Hanover, NJ

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**College of Population Health, Thomas Jefferson University**

Established in 2008, the Jefferson College of Population Health (JCPH) is one of six colleges that comprise Thomas Jefferson University, founded in 1824 as Jefferson Medical College. JCPH builds upon the 18-year history of Jefferson’s Department of Health Policy and specializes in all key areas of population health—public health, health policy, healthcare quality and safety, and applied health economics and outcomes research (AHEOR). The College has one of the oldest and most established outcomes research Fellowship programs in the country. To date, over 50 individuals have completed JCPH Fellowships and have successfully pursued careers in all sectors of the healthcare industry, including government, pharmacy, insurers and consulting.

During the first year, the Fellow will work in JCPH at the University’s Philadelphia Center City campus and be assigned to manage specific outcomes research projects. As a member of the JCPH research team, s/he has the opportunity to attend and present at research meetings, journal clubs, Population Health Forums and sponsored educational programs. S/he may also contribute to any one of several graduate level classes taught by JCPH faculty in the College’s public health, AHEOR, health policy, healthcare quality and safety, population health intelligence and population health graduate programs. The Fellow will develop writing skills through completion of a writing seminar, peer review of continuing education articles and authorship of manuscripts for publications edited by *American Journal of Medical Quality, Population Health Management*, and *Population Health Matters*.

Networking is also an important activity during the first year. The Fellow will interact with decision makers from both within the University and from a broad variety of organizations, including pharmaceutical and device manufacturers, health plans and other health-related employers. The Fellow will regularly meet with JCPH faculty and staff to discuss research projects and academic experiences, and s/he will be assigned a faculty mentor to coach him/her during the first year. Completion of master’s level coursework through JCPH is a formal component of this Fellowship and serves to develop the knowledge and skills required for health economics and outcomes research. The Fellow has the option to complete a fully supported graduate Certificate or Master of Science degree program in public health, population health, population health intelligence, health policy or applied health economics and outcomes research.

The second year of training will take place at Novartis, located in East Hanover, New Jersey. During this time, under the guidance of a Novartis preceptor, the Fellow will work directly with the HE&OR department at Novartis for a period of one year in order to further their educational objectives by gaining applied experience in health economics and outcomes research. In addition to project work, the Fellow will participate in meetings to share his or her work and further develop networking and presentation skills.

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<th><strong>Eligibility</strong></th>
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| Eligible candidates should have an advanced degree in health services research, public health, economics, epidemiology, pharmacy, pharmacy administration or a related discipline. A background in pharmacy or medicine and experience in outcomes research, health economics or another related field of research is preferred. Candidates must have excellent written and verbal communication skills. | For questions or additional information, please contact:  
Lauren Bartolome, PharmD  
Health Economics & Outcomes Research Fellow  
Phone: (862) 778-7482  
Email: lauren.bartolome@novartis.com  
All questions regarding potential visa sponsorship should be directed to the collaborating institution. |
Second-Year Fellow: Lauren Bartolome, PharmD

Lauren Bartolome is the second-year Health Economics & Outcomes Research (HE&OR) Fellow with the Jefferson College of Population Health (JCPH) and Novartis Pharmaceuticals Corporation.

Lauren received her Doctor of Pharmacy degree from the University of Florida (UF) College of Pharmacy. Prior to the Fellowship, she gained valuable experiences in academic research, the FDA, and the pharmaceutical industry. She was active in student organizations and founded Florida’s first Industry Pharmacists Organization (iPhO) student chapter. Her pursuit of a career in HE&OR stems from exposure gained during an 8-week rotation in HE&OR at Novartis.

During her first year at JCPH, Lauren conducted research projects involving retrospective database analyses, a cost-effectiveness analysis, and a systematic review. Lauren was able to apply outcomes research principles to lead studies relating to the opioid crisis, HIV, refugee health, and online patient communities. She had the opportunity to participate and present at local and national conferences to understand population health regionally and within the landscape of the US healthcare system.

In her second year of the fellowship, she supports the US HE&OR Neuroscience business unit. She is currently involved in research studies supporting a product launch. Some of her work involves strategic planning, large retrospective claims database analyses, qualitative research, and economic modeling. Lauren is also continuing coursework towards earning a Master’s degree in Applied Health Economics & Outcomes Research from the JCPH at Thomas Jefferson University.

First-Year Fellow: Karishma Shelley, PharmD

Karishma Shelley is a first-year Health Economics & Outcomes Research (HE&OR) fellow with the Jefferson College of Population Health (JCPH) and Novartis Pharmaceuticals Corporation.

Karishma received her Doctor of Pharmacy degree from The University of The Sciences (USciences) in 2018. Prior to the fellowship, Karishma interned at Express Scripts and assisted the Director of Clinical Account Management for the Department of Defense. During her extended internship, Karishma led a strategic business team to streamline the process of implementing the Department of Defense formulary and benefit changes. She was also responsible for developing formulary exclusion criteria, performing systematic literature reviews on prescribing patterns and utilization, and monitoring FDA innovator drug approvals for therapeutic review. Through her internship, Karishma gained an appreciation of HE&OR and its value in formulary management. She was fortunate to have the opportunity to co-author a review article on the real-world implementation of HIV pre-exposure prophylaxis in the United States that was published in the Society of Infectious Disease Pharmacist Newsletter. She also completed an externship at Precision for Value where she supported the global pricing and strategy team on modeling financial growth of pharmaceutical products in phase I and phase II clinical trials.

During her first year at JCPH, Karishma will collaborate with JCPH faculty to work on various projects, with a focus on oncology, opioids, access to care, inappropriate prescribing, and community health. She is also working towards a Master’s degree in Applied Health Economics and Outcomes Research.
1-Year Post-Doctoral Fellowship/Novartis Pharmaceuticals Corporation

Fellowship Site & Preceptor
Novartis Pharmaceuticals Corporation
Slaven Sikirica, MSc, Associate Director, Health Economics and Outcomes Research, East Hanover, NJ

Summary:
The US Health Economics and Outcomes Research (US HE&OR) and Global Oncology Market Access and Policy (GMAP) teams are pleased to offer one-year, full-time Fellowships within each department with opportunities to work with health economics and outcomes research and/or, market access, pricing, and policy professionals to support the Novartis business areas.

Fellows will have opportunities to participate in research studies and projects to gain experience in how a pharmaceutical company uses clinical, economic, and humanistic data to support the development and commercialization of products. Specifically, the Fellow will have opportunities to gain experience across a product life-cycle including the early development stages, peri-launch and post-product launch stages, in the neuroscience, respiratory, dermatology, cardiovascular, and transplant franchises within Novartis Pharmaceuticals or the Novartis Oncology business unit.

Specifically, the Fellows would provide opportunities to work on the following:
• Business application of HE&OR research
• Build on research skills including study methodology through the execution of HE&OR research studies
  - Research activities may include literature reviews within a specified disease or therapeutic area, development of economic models, medical chart review studies, patient surveys, database analyses, burden of illness studies, and PRO development
• Research publications and presentations
• Development of global market access and pricing strategy (Global Oncology specific)
• Project management experience
• Networking and collaboration with key internal stakeholders, such as Clinical Development, Medical, Marketing, and Health Policy

Position requirements include:
• Graduate degree in a health economics, outcomes research, or market access-related field of study such as Economic, Health Economics, Health Services Research, or Epidemiology
  - US HE&OR candidates: PhD degree (or advanced degree equivalent) required
  - GMAP candidates: Master’s or PhD degree (or advanced degree equivalent) required
• Substantiated foundational understanding of one or more of the following areas:
  - HE&OR methods including design and conduct of observational research studies, development of economic models, conducting indirect comparisons analyses, literature reviews, meta-analyses, and PRO development
  - US and/or global healthcare and reimbursement environments, payer/Health Technology Assessment systems, formulary designs and decision-making processes
  - Pricing dynamics and analytics including payment models, impact of international price referencing, business case analyses, and pricing models
• Excellent communication skills (oral and written) required
• Demonstrated success in working in teams and independently
• Appropriate work authorization for US employment for the entire Fellowship period required

Eligibility
Eligible candidates should have an advanced degree in health services research, public health, economics, epidemiology, pharmacy, pharmacy administration or a related discipline. A background in pharmacy or medicine and experience in outcomes research, health economics or another related field of research is preferred. Candidates must have excellent written and verbal communication skills.

Information
For questions or additional information, please contact:
Slaven Sikirica, MSc
Associate Director
Health Economics and Outcomes Research
(862) 778-0883
heor.fellowship@novartis.com

This position requires appropriate authorization for US employment for the entire Fellowship period.
Post-Doctoral Fellow:
Arijita Deb, PhD

Arijita Deb is a post-doctoral Health Economics and Outcomes Research (HE&OR) Fellow with Novartis Pharmaceuticals Corporation.

Arijita received her PhD in Health Services and Outcomes Research from West Virginia University. She has extensive research experience in the application of econometric techniques for analyzing large population-based datasets including IMS PharMetrics, MarketScan, Humana Medicare, MEPS, etc. Prior to joining the fellowship, Arijita contributed to multiple peer-reviewed publications and was lead author on five manuscripts. For her doctoral dissertation, she studied the real-world effectiveness of biologic therapy in RA patients including assessing if there was a beneficial spill-over effect of treatment on psychiatric comorbidities such as depression. Prior to joining the fellowship, she also collaborated extensively with Sanofi-Aventis as a graduate research assistant on multiple projects in Type 2 Diabetes Mellitus. She also completed an internship at Boehringer Ingelheim in the immunology division. During her internship, she conducted a retrospective claims data analysis of healthcare costs and resource utilization among patients with psoriasis treated with biologics. She was also involved with the development of an early economic model to assess the cost-effectiveness of a pipeline compound in psoriasis to identify gaps in evidence and propose studies to address those evidence needs.

Arijita currently supports the development and execution of HE&OR evidence generation initiatives in the immunology and dermatology therapeutic areas for Cosentyx in the psoriasis indication. In her current role, she plans and manages various HE&OR projects including database studies (including claims, EMR, registry data, chart reviews, and survey data), dossier development, HTA evaluations, predictive modelling, early economic model development and the development of evidence to support the payer value story.


**Previous Fellows**

**Neetu Agashivala, MS**
Director, Health Economics & Outcomes Research, Novartis Pharmaceuticals Corporation

**Kelly Fee Bell, PharmD, MSPhr**
Director, Value Evidence and Outcomes, GlaxoSmithKline

**William Boyko, PharmD**
Clinical Account Executive, Express Scripts

**Cat Bui, PharmD**
Director, Health Economics & Outcomes Research, Abbvie Pharma US, Inc.

**Scott Bull, PharmD**
Director, Clinical Development, Johnson & Johnson Pharmaceutical Research & Development

**Beilei Cai, PhD, MA**
Associate Director, Health Economics and Outcomes Research, Novartis Oncology

**Jane Chang, MPH**
Director, Global Outcomes & Evidence, Pfizer

**Michelle Choi, PharmD**
Manager, Health Economics and Outcomes Research, AbbVie

**Paul C. Cockrum, PharmD, DPh**
National Director, Field HEOR, Celgene

**Quynh Chau Doan, MS, RPh, PhD**
Medical Outcomes Science Liaison, AbbVie

**Batul Electricwala, PhD**
Associate Director, Health Economics & Outcomes Research, Novartis Pharmaceuticals Corporation

**John Fastenau, PhD, MPH, RPh**
Senior Director, Patient Reported Outcomes, Janssen Pharmaceutical Companies of Johnson & Johnson

**Feride Frech-Tamas, PhD, MPH**
Executive Director, Epidemiology and Outcomes Research, Lexicon Pharmaceuticals

**Rahul Garg, PhD**
Assistant Professor, Chicago State University

**Joseph Goble, PharmD**
Senior Scientific Account Lead, Real World Value & Evidence, Janssen Pharmaceutical Companies of Johnson & Johnson

**Boris Gorsh, PharmD**
Director, Value Evidence and Outcomes, GlaxoSmithKline

**Geneen Graber, PharmD**
President and CEO, DrG’s Pharmacy

**Bill Grant, PhD**
Associate Professor of Economics, College of Business, James Madison University

**Amy Grogg, PharmD**
Senior Vice President, Strategy and Commercialization, Amerisource Bergen Specialty Group

**Kristy Hanson, PharmD, MS**
Scientific Consultant, United BioSource Corporation

**Peter Hur, PharmD, MBA**
Associate Director, Health Economics & Outcomes Research, Novartis Pharmaceuticals Corporation

**Tom Karagiannis, PharmD, MS**
Senior Manager, Global Market Access & Pricing, Abbvie

**Jennifer Kim, PharmD**
Director, Global Price and Reimbursement, AstraZeneca

**John Kim, PharmD**
Reimbursement Director, Global Pricing & Market Access, Amgen

**Yoona Kim, PharmD, PhD**
Head of Clinical Modeling and Analytics, Proteus Digital Health

**John Ko, PharmD, MS**
Associate Director, Value & Evidence Strategy, Alnylam

**Amy Law, PharmD, MS**
Deputy Director, US Health Economics & Outcomes Research, Bayer HealthCare Pharmaceuticals, Inc.

**Jackie Lu, PharmD, MS**
Health Outcomes & Value Assessment Director, Pacira Pharmaceuticals

**Mario Luong, PharmD, MPH**
Program Director, United Health Group

**Jeannie Menz, PharmD**
Associate Director, Medical Information and Communication, Novartis Pharmaceuticals Corporation
Gilbert C. Ngan
Pharmacist: Part D Benefits Analyst,
CMS

Lina Nol-Heiring, MBA, RPh
Dermatology Sales Professional,
Valeant Pharmaceuticals

Engels Obi, PhD
Associate Director, Health Economics & Outcomes Research,
Novartis Pharmaceuticals Corporation

Jacqueline B. Palmer, PharmD
Associate Medical Director,
Novartis Pharmaceuticals Corporation

Jina Park, PharmD
Associate Director, Health Economics & Outcomes Research,
Novartis Pharmaceuticals Corporation

Hoa T. Pham
Medical Science Director,
ZS Pharma, Inc.

Craig Plauschinat, PharmD, MPH
Senior Director, Evidence Based Medicine,
Sanofi

Shibani Pokras, MPH
Value Evidence Leader, Value Evidence & Outcomes,
GlaxoSmithKline

Karim Prasla, PharmD, MS
Vice President, Clinical Outcomes Analytics and Research,
Magellan Health Services

Karina Raimundo, MS
Principal Health Economist, Evidence for Access,
Genentech, Inc.

Swetha Raparla
Analytics Consultant,
Cigna

David Ray, PharmD, MBA, MPH
HEOR Manager,
Ipsen Biopharmaceuticals

Rahul Sasané, PhD, MS, BPharm
Senior Director, Health Economics & Outcomes Research,
Novartis Oncology

Veronica Sendersky, PharmD
Managing Director/Freelancer,
Excellent Pharma Consulting

Hemal Shah, PharmD
President/Founder,
Value Matters, LLC

Slaven Sikirica, MS
Associate Director, Health Economics & Outcomes Research,
Novartis Pharmaceuticals Corporation

Anh Singhania, PharmD
Medical Science Director - Managed Market,
HEOR, ZS Pharma Inc.

Liz Stanley Smart, MPH
Associate Director, Health Economics & Outcomes Research,
Boehringer Ingelheim

Bhavini Patel Srivastava, BSpS, MS
Manager, Health Economics & Outcomes Research,
Pharmacyclics

Kangho Suh, PharmD, MS
PhD student, Pharmaceutical Outcomes Research & Policy,
University of Washington

Dusica Tasic
Health Economics Manager, Global Marketing,
GE Healthcare

Devi Thaker, PharmD
Director, PharmacoAnalytics,
GlaxoSmithKline

Melody Tran, PharmD, MS
Sr Clinical and Health Economics Specialist,
Proteus Digital Health

Yuen Tsang, PharmD, MPH
Senior Medical Liaison, Managed Markets and Health Economics & Outcomes Research,
Actelion Pharmaceuticals

Stefan Varga, PharmD
Manager, Global Value & Access Strategy,
Eisai Inc.

Ashok Vegesna, PharmD, MS
Associate Director, Health Economics & Outcomes Research,
Novartis Pharmaceuticals Corporation

Joel Wallace, PharmD, MPH, MBA
Senior Leader, External Affairs,
Chugai Pharmaceutical Co. LTD

Pin Xiang, PharmD
Manager, Global Health Economics,
Amgen

Krista Yokoyama, PharmD
Sr. Manager, Pharmacy Analytics,
Blue Shield of California
Health Economics & Outcomes Research Fellowship Application Form

Please type or print

Date __________________________

Name:

Last First MI

Address:

Street City State Zip Code

Phone:

Primary Secondary

Email: ________________________________________________________________

Undergraduate and Graduate Degree(s) (date received or expected):

________________________________________________________

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2-Year Programs (Preferred Degrees: PharmD, PhD, MS)

Please rank your site(s) of interest in order of priority (1 as highest priority):

_____ Baylor Scott & White Health/The University of Texas at Austin/Novartis Pharmaceuticals Corporation

_____ The University of Maryland/Novartis Pharmaceuticals Corporation

_____ Thomas Jefferson University College of Population Health/Novartis Pharmaceuticals Corporation

1-Year Programs (Preferred Degrees: PhD)

Applications accepted on rolling basis

_____ Novartis Pharmaceuticals Corporation

Application Materials Required

• Application form
• Curriculum vitae
• Letter of intent (make specific to top choice)
• Three letters of recommendation (must be forwarded directly by the authors of these letters)
• Official academic transcript(s) (must be forwarded directly from the Registrar’s Office)

Please email or send the required application materials to:

Health Economics & Outcomes Research Fellowship
One Health Plaza, Building 125/3510C, East Hanover, NJ 07936
Email: heor.fellowship@novartis.com