

# ENRIQUE SEOANE-VAZQUEZ

## CURRICULUM VITAE

### PERSONAL INFORMATION

Present Position: Professor of Pharmaceutical Economics, Regulation and Policy  
Pharmaceutical Economics and Policy Department, School of Pharmacy  
Professor of Pharmaceutical Economics  
Economics Science Institute, Argyros School of Business and Economics  
Chapman University  
Address: Harry and Diane Rinker Health Science Campus  
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### MEDIA

Chapman: <https://www.chapman.edu/our-faculty/enrique-seoane>  
Google Scholar: <https://scholar.google.com/citations?user=coZhsJ8AAAAJ&hl=en>  
LinkedIn: <https://www.linkedin.com/in/enriqueseoanevazquez>  
Research Gate: [https://www.researchgate.net/profile/Enrique\\_Seoane-Vazquez](https://www.researchgate.net/profile/Enrique_Seoane-Vazquez)  
PubMed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=seoane-vazquez>  
Twitter: @seoan001

### EDUCATION

- Doctor of Philosophy in Social and Administrative Pharmacy. University of Minnesota, 2002.
- Hospital Management Certificate. EADA Business School. Barcelona, Spain, 1992.
- Bachelor of Science in Economics. University of Santiago de Compostela, Spain, 1986.

### PROFESSIONAL EXPERIENCE

- Professor of Pharmaceutical Economics, Regulation and Policy, Chapman University School of Pharmacy. June 30, 2017-present.
- Professor of Pharmaceutical Economics (Joint appointment). Economics Science Institute. Argyros School of Business and Economics, Chapman University. April 23, 2019-present.
- Sponsored Collaborator, General Medicine and Primary Care, Brigham and Women's Hospital. September 23, 2014-September 23, 2019.
- Professor. Department of Business and Administrative Sciences. Massachusetts College of Pharmacy and Health Sciences (MCPHS University). April 1, 2017-June 30, 2017.
- Associate Professor. Department of Business and Administrative Sciences. MCPHS University. July 1, 2010 - March 31, 2017.
- Director, International Center for Pharmaceutical Economics and Policy. MCPHS University. March 1, 2011-June 30, 2017.
- Director, Graduate Program in Pharmaceutical Economics and Policy. MCPHS University. June 1, 2011-June 30, 2015.
- Member of the Ohio Public Sector Pharmacy Strategic Planning. Columbus, February-December 2006.
- Pharmacy Expert Consultant of the Ohio Commission to Reform Medicaid: Policy Advisory Team. Columbus, Ohio. July-December 2004.
- Assistant Professor. Health Services Management and Policy, College of Public Health, Ohio State University (OSU). February 11, 2004 - June 30, 2010.
- Scholar. Center for Health Outcomes Policy and Evaluation Studies, OSU. November 2002 - June 2010
- Assistant Professor. Pharmacy Practice and Administration, College of Pharmacy, OSU. August 19, 2002 - June 30, 2010.
- Research Fellow (Full-time position). PRIME Institute, College of Pharmacy, University of Minnesota. January 16, 1995- August 18, 2002.
- CEO. Conxo General Hospital (303 beds) and Psychiatric Hospital (450 beds). Spanish Health Service. Santiago de Compostela, Spain. March 1, 1993 - October 7, 1994.
- Director of Health Care Planning. State of Galicia Health Service (Spain). Santiago de Compostela, Spain. January 1- February 29, 1993.

- CFO. General Hospital Provincial de Pontevedra (370 beds). Spanish Health Service. Pontevedra, Spain. December 4, 1989 - December 31, 1992.
- Admissions Director. Outpatient Mental Health Services and Psychiatric Hospital Rebullon (136 beds). Mos. Spanish Health Service. December 3, 1989 - February 4, 1992.

## RESEARCH PROJECTS

1. Market Failures in the US Pharmaceutical Sector: The Case of Antibiotics. Enrique Seoane (PI), Rosa Rodriguez-Monguio (Co-PI), Lawrence Brown (Co-I), Fei Jiang (Co-I). Arnold Ventures. Jan-Feb 2022. Amount funded: \$253,246.
2. Screening for Medication Errors and Adverse Events Using MedAware Tool. Gordon Schiff (PI), Enrique Seoane (Co-I), Ronen Rozenblum (Co-I), Rosa Rodriguez-Monguio (Co-I), Adam Wright (Co-I), Tewodros Eguale (Co-I), David Bates (Co-I). Becton Dickinson & Co. Aug 2017-Sep 2018. Amount Funded: \$60,000.
3. Enhancing Medication CPOE Safety & Quality by Indications Based Prescribing. Agency for Healthcare Research and Quality. Gordon Schiff (PI), Enrique Seoane (Consultant), Sep 2014-Mar 2018. Amount Funded: \$748,491.
4. e-Pharmacovigilance II - Surveillance for Safety and Effectiveness - Calling for Earlier Detection of Adverse Reactions (CEDAR). Agency for Healthcare Research and Quality. Gordon Schiff (PI), David Bates (Co-I), Jennifer Haas (Co-I), Enrique Seoane (Co-I). Sep 2014-Aug 2017. Health Information Technology Center for Education and Research on Therapeutics (HIT-CERT) funded project, David W. Bates (PI).
5. Drug Indications Database Knowledge Management Planning. Sarah K. McCord (PI), Enrique Seoane (Co-I). Subcontract with National Libraries of Medicine New England Region, National Library of Medicine Contract Number HHSN276201100010C. Jan-Apr 2015. Amount Funded: \$9,500.
6. Post-market Authorized Generic Evaluation (PAGE). Richard A. Hansen (PI) Auburn University, Jingjing Qian (Co-I), David Page (Co-I), Peggy Peissig (Co-I), Richard Berg (Co-I), Michael Caldwell (Co-I), Enrique Seoane (Consultant). Sep 2014-Aug 2016. Amount Funded: \$399,970.
7. Medication Therapy Management for Seniors. Farnsworth Foundation. Al Norman (PI) Mass Home Care, Catherine Hardaway (Co-PI) Central Boston Elder Services, Enrique Seoane (Consultant). Apr 2014-Dec 2015. Amount Funded: \$35,000.
8. International Assessment of Remuneration Models for Hospital and Community Pharmacy. International Pharmaceutical Federation (FIP). Veronika Wirtz (PI). Center for Global Health & Development- CGHD, Boston University), Enrique Seoane (PI), Paul Ashigbie (CGHD), Warren Kaplan (CGHD), Michael Montagne (MCPHS), Sabine Vogler (Gesundheit Oesterreich Forschungs- und Planungs GmbH), Zaheer-Ud-Din Babar (University of Auckland). Jul-Sep 2013. Amount Funded: \$108,223.
9. The Impact of Increasing Intellectual Property Regulations on the Pharmaceutical Sector: The Case of the Trans-Pacific Partnership Agreement. Enrique Seoane (PI), Rosa Rodriguez-Monguio (School of Public Health, University of Massachusetts at Amherst) (PI), Sheryl Szeinbach (College of Pharmacy, Ohio State University) (Co-PI). Affordable Medicines Research Institute. Jul 2012-Jun 2013. Amount Funded: \$186,552.
10. The Care Process for Home-Health Care and Hospital Patients with Central Venous Access Devices. Enrique Seoane (PI). Genentech Inc. Subcontract with HSC, LLC. Apr 2011-Feb 2012. Amount Funded: \$75,000.
11. Testosterone Replacement Therapy (TRT) Preference Study. Sheryl L. Szeinbach (PI), Enrique Seoane (PI). Endo Pharmaceuticals Inc. Nov-Dec 2011. Amount Funded: \$7,500.
12. Public Health Implications of Antibiotic Regulation. Robert Wood Johnson Foundation. Kevin Outterson (Law School, Boston University) (PI), Rosa Rodriguez-Monguio (School of Public Health, University of Massachusetts at Amherst) (PI), Enrique Seoane (Co-PI). Jan 2010-Jun 2011. Amount Funded: \$150,000.

13. Pricing and Reimbursement of Medical Devices in the U.S. Agência Nacional de Vigilância Sanitária, Brazil, and Pan American Health Organization / World Health Organization. Enrique Seoane (PI), Rosa Rodriguez-Monguio (School of Public Health, University of Massachusetts at Amherst) (Co-PI). Oct 2009-Apr 2010. Amount Funded: \$35,000.
14. Analysis of Health Services Delivery and Pharmaceuticals. University of La Rioja contract with the Spanish Ministry of Health. Rosa Rodriguez-Monguio (School of Public Health, University of Massachusetts at Amherst) (PI), Enrique Seoane (PI). May-Oct 2008. Amount Funded: \$28,000.
15. Present and Future of Health Care Delivery in Selected OECD Countries. University of La Rioja contract with the Spanish Ministry of Health. Rosa Rodriguez-Monguio (School of Public Health, University of Massachusetts at Amherst) (PI), Enrique Seoane (PI). Jul-Nov 2007. Amount Funded: \$30,967.
16. Pharmaceutical Care for American Indians. Indian Health Board of Minneapolis. Enrique Seoane (PI). Rosa Rodriguez-Monguio (School of Public Health, Ohio State University) (Co-PI). Feb-Apr 2007. Amount Awarded: \$15,000.
17. An Economic Analysis of Adverse Events Associated with Flexible Cystoscopy and Endoscopy. Medtronic Inc., through Data Intelligence Consultants, LLC. Rosa Rodriguez-Monguio (School of Public Health, Ohio State University) (PI). Enrique Seoane (Co-PI). Nov 2006-Feb 2007. Amount Funded: \$15,000.
18. Analysis of the Ohio Public Employees Retirement System Pharmaceutical Program. Ohio Public Employees Retirement System. Enrique Seoane (PI), Rosa Rodriguez-Monguio (School of Public Health, Ohio State University) (Co-PI). Dec 20, 2005 – Mar 20, 2006. Amount Funded: \$33,000.
19. Assessment of the Effectiveness of Pharmaceuticals and Medical Products. Analysis of International Experiences. Spanish Agency of Medicines and Health Products, Spanish Ministry of Health. Madrid, Spain. Sep-Dec 2005. Rosa Rodriguez-Monguio (PI), Enrique Seoane (PI). Total Funded: \$16,375.
20. Impact of the Negotiation of HIV Drugs and Reactives in the Andean Countries. Pan American Health Organization / World Health Organization (FCH/HIV/010). Enrique Seoane (PI), Rosa Rodriguez-Monguio (School of Public Health, Ohio State University) (Co-PI). Nov 2004-Mar 2005. Amount Funded: \$20,000.
21. Alternatives for Reform of the Ohio Medicaid Pharmaceutical Sector. Ohio Commission to Reform Medicaid. Columbus: Ohio Department of Job and Family Services, Jan-Dec 2004. Amount Funded: \$55,000.
22. Strengthening of the Pharmaceutical System of Guyana. Inter-American Development Bank - Guyana's Ministry of Health. (ATN/SF-5834-GY). Enrique Seoane (PI) (Co-PI), Shazadh Khan (Guyana) (Co-I), Francisco Estevez Carrizo (University of Montevideo, Uruguay) (Co-I), Jose Roson Lopez (National Health Service, Spain) (Co-I). Aug 2003-Mar 2004. Amount Funded: \$14,500.
23. Background papers for the World Bank Policy Note on Pharmaceuticals. The World Bank. Enrique Seoane (PI). Mar-Dec 2003. Amount Funded: \$13,200.
24. Pharmaceutical Clearinghouse of the Americas. Pan American Health Organization – World Health Organization. Enrique Seoane (PI), Rosa Rodriguez-Monguio (Pan American Health Organization / WHO) (PI). Jan-Mar 2003. Amount Awarded: \$15,000.
25. Pharmacoeconomic Analysis of Parecoxib for Pain Treatment in Outpatient Surgery and Emergency Room Departments. Pharmacia through Data Intelligence Consultants, Eden Prairie, MN. Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI), Jul-Dec 2001. Amount Funded: \$47,148.
26. Product Characteristics of Top 300 Prescribed Drugs in the U.S. Medquest, Inc., St. Paul, MN. Enrique Seoane (PI), Stephen Schondelmeyer (Co-PI). Jun-Sep 2001. Amount Funded: \$5,000.
27. HIV Market Trends and Projections. University of Minnesota, Minneapolis. Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). Mar-Apr 2001. Amount Funded: NA.
28. Trends in Medicaid Pharmaceutical Expenditures and Utilization. Henry J. Kaiser Family Foundation and PRIME Institute, University of Minnesota, Minneapolis. Stephen Schondelmeyer (PI), Enrique Seoane (Co-I), Supon Limwatananon (Co-I), 2000.
29. Survey of Pharmacists' Handling of Partial Fill Prescriptions over the Past Decade. Eckerd Corporation, Salt Lake City, UT. Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). May-Sep 2000. Amount Funded: \$78,831.

30. Analysis of the Medicare Current Beneficiary Survey 1992-1996. Family U.S. Foundation. Stephen Schondelmeyer (PI), Ronald S. Hadsall, Nancy Hardie, Enrique Seoane (Co-I). Nov 1999-Mar 2000. Amount Funded: NA.
31. Kansas Pharmacy Service Corporation Strategic Planning. Kansas Pharmacy Service Corporation, Topeka, Kansas. Stephen Schondelmeyer (PI), Enrique Seoane (Co-I). Aug-Sep 1999.
32. Economic Consequences of Bone Marrow Transplants in the U.S. Economic Advisory Group, Bedford, England. Enrique Seoane (PI), Stephen Schondelmeyer (PI). Dec 1998-Jan 1999. Amount Funded: \$5,450.
33. Positioning and Pricing Hectorol in the Vitamin D Analog Market. Bone Care International, Inc., Madison, Wisconsin and Nephrology Pharmacy Associates, Inc., Ann Arbor, Michigan. Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). Jul 1998-Jan 1999. Amount Funded: \$14,500.
34. Factors Influencing Affordable Access to Pharmaceuticals. National Association of Pharmaceutical Manufacturers. Stephen Schondelmeyer (PI), Enrique Seoane (Co-I). Jun 1998-Dec 1999.
35. Annual Prescription Survey of Chain and Independent Pharmacies, 1998. Hearst Publishing (American Druggist). Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). Jan-Jun 1998. Amount Funded: \$5,300.
36. Cost of Rheumatoid Arthritis. Economic Advisory Group, Ltd (London, England). Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). May-Jun 1997. Amount Funded: \$1,970.
37. Annual Prescription Survey of Chain and Independent Pharmacies, 1997. Hearst Publishing (American Druggist). Stephen Schondelmeyer (PI), Enrique Seoane (Co-I). Jan-Jun 1997. Amount Funded: \$5,000.
38. Generic Pharmaceutical Use in Venezuela. Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). Foundation Elias Morris Curiel. Oct 1996-Mar 1997. Amount Funded: \$41,641.
39. State-Level Trends in Medicaid Drug Expenditures. National Association of Chain Drug Stores, Alexandria, VA. Stephen Schondelmeyer (PI), Enrique Seoane (Co-I). Dec 1995 - Jan 1996. Amount Funded: \$1,000.
40. Market Potential and Business Development Assessment of a Potential Drug Product. Upsher-Smith Laboratories, Saint Paul, MN. Stephen Schondelmeyer (PI), Enrique Seoane (Co-PI). Aug-Sep 1995. Amount Funded: \$2,000.
41. Survey of Hospital-Based Pharmaceutical Services in Spain. PRIME Institute and the Spanish Society of Hospital Pharmacy. Spanish. Enrique Seoane (PI), Stephen Schondelmeyer (PI). Madrid, Spain. Feb-Sep 1995. Amount Funded: \$10,000.
42. Designing Pharmacoeconomic Tools and Application for the Spanish Health Care System. Spanish. National Health Service, Xunta de Galicia, Santiago, Spain. Luis Matos, Enrique Seoane (PI). Jan-Sep 1989. Amount Funded: \$500.

## **PUBLICATIONS**

### **BOOKS AND MONOGRAPHS**

1. Ulrika Enemark, Anita Alban, Enrique Seoane. Purchasing Pharmaceuticals. Health, Nutrition and Population (HNP) Discussion Paper. Washington, DC: The International Bank for Reconstruction and Development / The World Bank, Sep 2004. 43 pp.
2. Rosa Rodriguez-Monguio, Enrique Seoane. Analysis of the Experience of the United States and Alternatives for the Spanish Pharmaceutical Sector. Spanish. ISBN: 84-96204-57-X. Madrid: Fundación Alternativas, 2004. 91 pp.

### **CHAPTERS IN EDITED BOOKS**

1. Lawrence Brown, Enrique Seoane. Pharmaceutical Care in North America. In Filipa Alves da Costa, Aldo Álvarez Risco, Foppe van Mil (Editors). The Pharmacist Guide to Implementing Pharmaceutical Care. Springer International Publishing. ISBN: 978-3-319-92576-9. pp:145-158.
2. Ulrika Enemark, Anita Alban, Enrique Seoane, Andreas Seiter. Purchasing Pharmaceuticals. In Alexander S. Preker (Editor). Spending Wisely: Buying Health Services for the Poor. ISBN: 0821359185. Washington, DC: The International Bank for Reconstruction and Development/ The World Bank, Jun 2005. pp:251-266.

3. Enrique Seoane. Hospital Pharmacoeconomics. Spanish. In: Sacristan J, Badia X, Rovira J (Editors). *Pharmacoeconomics: Pharmaceutical Economic Evaluation*. ISBN:8487054196. Madrid: Editores Médicos, 1995. pp:169-183.

#### ARTICLES IN PEER-REVIEWED JOURNALS

1. Rosa Rodriguez-Monguio, Mahim Naveed, Enrique Seoane. Predictors of shortages of opioid analgesics in the US: Are the characteristics of the drug company the missing puzzle piece? *PLoS One* (Impact factor: 3.040) 2021;16(3):e0249274.
2. Lita Arajo, Enrique Seoane, Michael Montagne. Effect of Free Trade Agreements on Pharmaceutical Market Competition: The Case of the 2009 US-Peru Free Trade Agreement and Its Implementation as National Drug Policy. *Health Policy OPEN. Health Policy OPEN* 2021; 2:100039.
3. Rosa Rodriguez-Monguio, Mahim Naveed, Rhiannon Croci, Kendall Gross, Erica Langnas, Catherine L. Chen, Enrique Seoane. Perioperative Prescribing Practices of Extended-Release Opioids in Noncancer Surgical Patients, 2015–2018. *Anesthesia & Analgesia* (Impact factor: 3.489) 2020;131(4):1249-1259.
4. Jelena Lewis, Tiffany Nguyen, Hana Althobaiti, Mona Y. Alsheikh, Brad Borsari, Suzanne Cooper, David S. Kim, Enrique Seoane. Outcomes of an Advanced Pharmacist Practice Type 2 Diabetes Management Program. *Innovations in Pharmacy* 2019;10(4);1-8.
5. Ronen Rozenblum, Rosa Rodriguez-Monguio, Lynn Volk, Sara Myers, Maria McGurrin, Deborah Williams, David Bates, Gordon Schiff, Enrique Seoane. Using a Machine Learning System to Identify and Prevent Medication Prescribing Errors: A Clinical and Cost Analysis Evaluation. *The Joint Commission Journal on Quality and Patient Safety* (Impact factor: 0.645) 2020;46(1):3-10.
6. Vaishali Shukla, Enrique Seoane, Souhiela Fawaz, Lawrence Brown, Rosa Rodriguez-Monguio. The Landscape of Cellular and Gene Therapy Products: Cost, Approvals, and Discontinuations. *Human Gene Therapy* (Impact factor: 4.241) 2019;30(3):102-113.
7. Enrique Seoane, Vaishali Shukla, Rosa Rodriguez-Monguio. Advanced Therapy Medicinal Products Innovation and Competition. *EMBO Molecular Medicine* (Impact factor: 10.300) 2019:e9992.
8. Gordon Schiff, Elissa Klinger, Alejandra Salazar, Jeffrey Medoff, Mary Amato, E. John Orav, Shimon Shaykevich, Enrique Seoane, Lake Walsh, Theresa Fuller, Patricia Dykes, David Bates, Jennifer Haas. Screening for Adverse Drug Events: A Randomized Trial of Automated Calls Coupled with Phone-Based Pharmacist Counseling. *Journal of General Internal Medicine* (Impact factor: 4.005) 2019;34(2):285-292.
9. Mary Gutierrez, Jerika Lam, Enrique Seoane, Christie Yoon, Jasmine Sardar. A Survey of Naloxone Furnishing by Pharmacists in Orange County. *California Journal of Health-System Pharmacists* 2018;30(5):115-121.
10. Ahmed Alghamdi, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of Formulary Coverage and Cost of Biologic Disease-Modifying Anti-Rheumatic Drugs in Medicare Part D. *Journal of Pharmaceutical Health Services Research* 2018;9(3):199-206.
11. Minette-Joëlle Zeukeng, Enrique Seoane, Pascal Bonnabry. Response to the Letter to the editor regarding Zeukeng et al. article A comparison of new drugs approved by the FDA, the EMA, and Swissmedic: An assessment of the international harmonization of drugs. *European Journal of Clinical Pharmacology* (Impact factor: 2.902) 2018;74(9):1199–1200.
12. Kevin Kron, Sara Myers, Lynn Volk, Aaron Nathan, Pamela Neri, Alejandra Salazar, Mary Amato, Adam Wright, Sam Karmiy, Sarah McCord, Enrique Seoane, Tewodros Eguale, Rosa Rodriguez-Monguio, David Bates, Gordon Schiff. Incorporating Medication Indications into the Prescribing Process. *American Journal of Health-Systems Pharmacy* (Impact factor: 1.969) 2018; 75:e305-14.
13. Minette-Joëlle Zeukeng, Enrique Seoane, Pascal Bonnabry. A Comparison of New Drug Approved by the FDA, the EMA and Swissmedic: An Assessment of the International Harmonization of Drugs. *European Journal of Clinical Pharmacology* (Impact factor: 2.902) 2018;74(6):811-818.
14. Christina S. Kwon, Enrique Seoane, Rosa Rodriguez-Monguio. Cost-effectiveness Analysis of metformin+dipeptidyl peptidase-4 inhibitors Compared to metformin+sulfonylureas for Treatment of Type 2 Diabetes. *BMC Health Services Research* (Impact factor: 1.827) 2018;18(1):78.

15. Bander Balkhi, Enrique Seoane, Rosa Rodriguez-Monguio. Changes in the Utilization of Osteoporosis Drugs after the 2010 FDA Bisphosphonate Drug Safety Communication. *Saudi Pharmaceutical Journal* (Impact factor: 2.302) 2018;26(2):238-243.
16. Enrique Seoane, Rosa Rodriguez-Monguio, Saad Alqahtani, Gordon Schiff. Exploring the Potential for Using Drug Indications to Prevent Look-Alike and Sound-Alike Drug Errors. *Expert Opinion on Drug Safety* (Impact factor: 3.469) 2017;16(10):1103-1109.
17. Richard A. Hansen, Jingjing Qian, Richard L. Berg, James G. Linneman, Enrique Seoane, Sarah Dutcher, Saeid Raofi, C. David Page, Peggy L. Peissig. Comparison of Generic-to-Brand Switchback Rates Between Generic and Authorized Generic Drugs. *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy* (Impact factor: 2.592) 2017;37(4):429-437.
18. Aseel Bin Sawad. Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistani. Cost-Effectiveness of Different Strategies for Treatment of Relapsing-Remitting Multiple Sclerosis. *Journal of Comparative Effectiveness Research* (Impact factor: 1.075) 2017;6(2):97-108.
19. Bander Balkhi, Enrique Seoane, Rosa Rodriguez-Monguio. Osteoporosis Drugs Generic Competition, Pricing Structure and Dispersion among Payers. *International Journal of Technology Assessment in Health Care* (Impact factor: 1.030) 2017;32(6):385-392.
20. Rosa Rodriguez-Monguio, Tai Spargo, Enrique Seoane. Ethical Imperatives of Timely Access to Orphan Drugs: Is Possible to Reconcile Economic Incentives and Patients' Health Needs? *Orphanet Journal of Rare Diseases* (Impact factor: 3.290) 2017;12(1):1.
21. Richard A. Hansen, Jingjing Qian, Richard L. Berg, James G. Linneman, Enrique Seoane, Sarah Dutcher, Saeid Raofi, C. David Page, Peggy L. Peissig. Comparison of Outcomes Following a Switch from a Brand to an Authorized vs. Independent Generic Drug. *Clinical Pharmacology & Therapeutic* (Impact factor: 7.268) 2018;103(2):310-317.
22. Seoun Kwon, Enrique Seoane, Rosa Rodriguez-Monguio. FDA Safety Actions for Antidiabetic Drugs Marketed in the US, 1980-2015. *International Journal of Risk and Safety in Medicine* (Impact factor: 0.320) 2016;28(4):197-211.
23. Leo F. Buckley, Enrique Seoane, Judy W.M. Cheng, Ahmed Aldemerdash, Irene M. Cooper, Lina Matta PharmD, Danika S. Medina, Mandeep Mehra, Kristina Navarro-Velez, Elaine Shea, Joanne R. Weintraub, Lynne W. Stevenson, Akshay S. Desai. Cost Comparison of Ambulatory, High-Dose, Intravenous Diuretic Therapy to Standard Hospitalization and Diuretic Therapy for Treatment of Acute Decompensated Heart Failure. *American Journal of Cardiology* (Impact factor: 3.154) 2016;118(9):1350-1355.
24. Aseel Bin Sawad. Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistani. Evaluation of Using Expanded Disability Status Scale and Multiple Sclerosis Functional Composite as Clinical Endpoints in Multiple Sclerosis Clinical Trials: A Quantitative Meta-Analysis. *Current Medical Research and Opinion* (Impact factor: 2.643) 2016; 32(12):1969-1974.
25. Gordon Schiff, Enrique Seoane, Adam Wright. Incorporating Indications into Medication Ordering: Time to Enter the Age of Reason. *New England Journal of Medicine* (Impact factor: 59.558) 2016;375(4):306-309.
26. Bander Balkhi, Enrique Seoane, Rosa Rodriguez-Monguio. Medicaid Osteoporosis Drugs Utilization and Expenditures: The Effect of Generic Drugs Market Entry. *Journal of Pharmaceutical Health Services Research* 2016; 7(4): 217-224.
27. Aseel Bin Sawad, Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistan. Price Analysis of Multiple Sclerosis Disease-Modifying Therapies Marketed in the United States. *Current Medical Research and Opinion* (Impact factor: 2.643) 2016;32(11):1783-1788.
28. Mona Alsheikh, Enrique Seoane, Brian Rittenhouse, Erin Fox, John Fanikos. A Comparison of Drug Shortages in the Hospital Setting in the United States and Saudi Arabia: An Exploratory Analysis. *Hospital Pharmacy* 2016; 51(5):370-375.
29. Enrique Seoane, Rosa Rodriguez-Monguio, Richard Hansen. Interchangeability, Safety and Efficacy of Modified Release Drug Formulations in the US: The Case of Opioid and Other Nervous System Drugs. *Clinical Drug Investigation* (Impact factor: 1.557) 2016;36(4):281-92.

30. Jing Hao, Rosa Rodriguez-Monguio, Enrique Seoane. Fixed-dose Combination Drugs Approvals, Patents and Exclusivities Compared to Single Active Ingredient Pharmaceuticals. *PLoS One* (Impact factor: 3.234) 2015 Oct 15;10(10):e0140708.
31. Jing Hao, Rosa Rodriguez-Monguio, Enrique Seoane. Fixed-dose Combination and Single-Active Ingredient Drugs: A Comparative Cost Analysis. *Expert Review of Pharmacoeconomics & Outcomes Research* (Impact factor: 1.669) 2015 Jul 15:1-8.
32. Enrique Seoane, Rosa Rodriguez-Monguio, Saad Alqahtani. Response to Letter to the Editor regarding Alqahtani et al. Article on Priority review Drugs Approved by the FDA and the EMA: Time for international Regulatory Harmonization Of Pharmaceuticals? *Pharmacoepidemiology and Drug Safety* (Impact factor: 2.939) 2016;25(6):745-6.
33. Saad Alqahtani, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale. Priority review Drugs Approved by the FDA and the EMA: Time for International Regulatory Harmonization of Pharmaceuticals? *Pharmacoepidemiology and Drug Safety* (Impact factor: 3.172) 2015;24(7):709-15.
34. Rosa Rodriguez-Monguio, Enrique Seoane. Potentially Inappropriate Antipsychotic Use in US Nursing Homes: A Safety Concern. *Journal of Pharmaceutical Health Services Research*, 2014; 5(4):215-223.
35. Sheryl L. Szeinbach, Jessica Pauline, Kathleen Villa, S Renee Commerford, Ann Collins, Enrique Seoane. Evaluating Catheter Complications and Outcomes in Patients Receiving Home Parenteral Nutrition. *Journal of Evaluation in Clinical Practice* (Impact factor: 1.58) 2015;21(1):153-9.
36. Timothy Hudd, Enrique Seoane, Suzanne Bollmeier. Survey of Certified Asthma Educator (AE-C) Pharmacists – Who Are They and How is This Credential Being Used? *Journal of Pulmonary & Respiratory Medicine*, 2015;4:223.
37. Marie Dacey, William McCloskey, Caroline Zeind, Magdalena Luca, Lisa Woolsey, Carol Eliadi, Enrique Seoane, Rebecca Couris. Development of a Questionnaire to Assess Health Profession Student Knowledge of Older Adults. *Currents in Pharmacy Teaching and Learning*, 2014;6(2):233-244.
38. Rosa Rodriguez-Monguio, Kerry Spielberger, Enrique Seoane. Examination of Risk Evaluation and Mitigation Strategies and Drug Safety in the US. *Research in Social and Administrative Pharmacy* (Impact factor: 2.350) 2014;10(1):232-8.
39. Kevin Outterson, John H. Powers, Enrique Seoane, Rosa Rodriguez-Monguio, Aaron Kesselheim. Approval and Withdrawal of New Antibiotics and Other Antiinfectives in the U.S., 1980–2009. *Journal of Law, Medicine & Ethics* (Impact factor 1.215) 2013;41(3): 688-696.
40. Bander Balkhi, Lita Araujo-Lama, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach, Erin Fox. Shortages of Systemic Antibiotics in the United States: How long can we wait? *Journal of Pharmaceutical Health Services Research* 2013;4(1):13-7.
41. Diane Nguyen, Enrique Seoane, Rosa Rodriguez-Monguio, Michael Montagne. Changes in FDA Enforcement Activities Following Changes in Federal Administration: The Case of Regulatory Letters Released to Pharmaceutical Companies. *BMC Health Services Research* (Impact factor: 1.660) 2013; 13:27.
42. Sheryl L. Szeinbach, Enrique Seoane, Kent Summers. Development of the Men's Preference for Testosterone Replacement Therapy (P-TRT) Instrument. *Patient Preference and Adherence* (Impact factor 1.143) 2012;6(631-41).
43. Jay Visaria, Enrique Seoane, Sheryl L. Szeinbach, Rosa Rodriguez-Monguio. Comparing the Cost of Community Pharmacy and Mail-Order Pharmacy in a US Retirement System. *International Journal of Health Planning and Management* (Impact factor: 1.022) 2012; 27(1):e41-50.
44. Paul Le, Enrique Seoane, Rosa Rodriguez-Monguio, Erin R. Fox, Sheryl L. Szeinbach, Allen R. Dunelew, Michael Montagne. The Prevalence of Pharmaceutical Shortages in the United States. *Journal of Generic Medicines*, 2011;8(4):216-223.
45. Zaina Qureshi, Enrique Seoane, Rosa Rodriguez-Monguio, Kurt Stevenson, Sheryl Szeinbach. Market Withdrawal of New Molecular Entities Approved in the United States from 1980 to 2009. *Pharmacoepidemiology and Drug Safety* (Impact factor: 2.342) 2011;20(7):772-7.

46. Andrew P. Beyer, Sheryl L. Szeinbach, Enrique Seoane, Joseph A. Gliem, Justin Doan, Greg Vander Wal, Kenneth L. Lichstein. Assessing the Reliability and Validity of a Newly Developed Insomnia Treatment Satisfaction Questionnaire (ITSAT-Q). *Sleep Medicine* (Impact factor: 3.430) 2010;11(8):766-71.
47. C. Daniel Mullins, Brian Seal, Enrique Seoane, Jayashri Sankaranarayanan, Carl V. Asche, Ravishankar Jayadevappa, Won Chan Lee, Dorothy K. Romanus, Junling Wang. Good Research Practices for Measuring Drug Costs in Cost-Effectiveness Analyses: Medicare, Medicaid and Other US Government Payers Perspectives: The ISPOR Drug Cost Task Force Report--Part IV. *Value in Health* (Impact factor: 2.342) 2010;13(1):18-24.
48. Rosa Rodriguez-Monguio, Enrique Seoane, Fernando Antoñanzas Villar. Health Policy in Canada: Challenges and opportunities. *Electronic Journal of Biomedicine*, 2009;2:66-75.
49. Rosa Rodriguez-Monguio, Enrique Seoane. The Patent Life of Antiretroviral Drugs Approved by the FDA between 1987 and 2007. *AIDS Care* (Impact factor: 1.684) 2009;21(6):Jun 3:1-9.
50. Tara L. Hanuscak, Sheryl L. Szeinbach, Enrique Seoane, Brendan Reichert, Charles McCluskey. Evaluation of Causes and Frequency of Medication Errors During Information Technology Downtime. *American Journal of Health-Systems Pharmacy* (Impact factor: 2.097) 2009;66(12):1119-1124.
51. Katharine A. Sheldon, Enrique Seoane, Sheryl L. Szeinbach, Crystal Tubbs. Exploring Risk and Ease of Use for Insulin Delivery by Nurses. *Journal of Evaluation in Clinical Practice* (Impact factor: 1.003) 2010;16:199–201.
52. Katharine A. Sheldon, Enrique Seoane, Sheryl L. Szeinbach, Crystal Tubbs. Usefulness of the Plan-Do-Study-Act Process to Implement a New Insulin Delivery System in a Hospital Setting. Letter. Editor Reviewed. *American Journal of Health-Systems Pharmacy* (Impact factor: 2.097) 2009;66(12):1074-1075.
53. Binita Patel-Naik, Sheryl L. Szeinbach, Enrique Seoane, Melissa J. Snider, Margueritte S. Hevezi. Managing Oral Anticoagulation Therapy by Pharmacists in a Specialty Heart Hospital. *Journal of Evaluation in Clinical Practice* (Impact factor: 1.003) 2010;192-195.
54. Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L. Szeinbach, Andrew P. Beyer, Jay Visaria. Analysis of the Impact of the Uruguay Round Agreements Act on Pharmaceutical Patents. *Food and Drug Law Journal* (Impact factor: 0.526) 2009;64(1):171-182.
55. Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L. Szeinbach, Jay Visaria. Incentives for Orphan Drug Research and Development in the United States. *Orphanet Journal of Rare Diseases* (Impact factor: 3.143) 2008;3(33):7pp.
56. Enrique Seoane, Rosa Rodriguez-Monguio. Access to Essential Drugs in Guyana: A Public Health Challenge. *International Journal of Health Planning and Management* (Impact factor: 0.811) 2008; Jun 5:15 pp.
57. Enrique Seoane, Stephen Schondelmeyer, Sheryl L. Szeinbach. Drug Patent Life and Generic Entry: Analysis of the New Molecular Entities Approved by the FDA between 1980 and 1999. *Journal of Pharmaceutical Finance, Economics & Policy*, 2008;16:4:67-85.
58. Enrique Seoane, Rosa Rodriguez-Monguio. Endoscopy-Related Infections: A Relic of the Past? *Current Opinion in Infectious Diseases* (Impact factor: 4.350) 2008; 21(4):362-6.
59. Jaclyn M. LeBlanc, Enrique Seoane, Trudy C. Arbo, Joseph F. Dasta. International Critical Care Hospital Pharmacist Activities. *Intensive Care Medicine* (Impact factor: 5.055) 2008;34(3):538-42.
60. Jaclyn M. LeBlanc, Enrique Seoane, Joseph F. Dasta. Survey of Hospital Pharmacist Activities Outside of the United States. *American Journal of Health-Systems Pharmacy* (Impact factor: 1.708) 2007;64:1748-55.
61. Carmen C. Inquilla, Sheryl L. Szeinbach, Enrique Seoane, Karl H. Kappeler. Pharmacists' Perceptions of Computerized Prescriber-Order-Entry Systems. *American Journal of Health-Systems Pharmacy* (Impact factor: 1.708) 2007;64(16):1626-32.
62. Satish Valluri, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L. Szeinbach. Drug Utilization and Cost in a Medicaid Population: A Simulation Study of Community vs. Mail Order Pharmacy. *BMC Health Services Research* (Impact factor: 1.358) 2007;7(1):122 (9 pp).
63. Enrique Seoane, Rosa Rodriguez-Monguio, Jay Visaria, Angeline Carlson. Endoscopy-Related Infections and Toxic Reactions: An International Comparison. *Endoscopy* (Impact factor: 4.166) 2007 Aug;39:1-37.



64. Sheryl L. Szeinbach, Enrique Seoane, Ashish Parekh, Michelle Herderick. Dispensing Errors in Community Pharmacy: Perceived Influence of Sociotechnical Factors. *International Journal for Quality in Health Care* (Impact factor: 1.326) 2007;19(4):1-7.
65. Enrique Seoane, Rosa Rodriguez-Monguio. Negotiating Antiretroviral Drug Prices: The Experience of the Andean Countries. *Health Policy and Planning* (Impact factor: 1.653) 2007;22(2):63-72.
66. Sheryl L. Szeinbach, Enrique Seoane, Andrew P. Beyer, P. Brock Williams. The Impact of Allergic Rhinitis on Work Productivity. *Primary Care Respiratory Journal*, 2007;16(2):98-105. Erratum in: *Primary Care Respiratory Journal*, 2007;16(4):257.
67. Rosa Rodriguez-Monguio, Joan Rovira, Enrique Seoane. Analysis of the World Bank Pharmaceutical Lending. *Health Policy* (Impact factor: 1.141) 2007;81(1):102-6.
68. Enrique Seoane, Rosa Rodriguez-Monguio, Jay Visaria, Angeline Carlson. Exogenous Endoscopy-Related Infections, Pseudo-Infections, and Toxic Reactions: Clinical and Economic Burden. *Current Medical Research and Opinion* (Impact factor: 3.062) 2006;22(10):2007-21.

#### **EXPERT CONTRIBUTOR**

1. Pamela M. Garabedian, Adam Wright, Isabella Newbury, Lynn A. Volk, Alejandra Salazar, Mary G. Amato, Aaron W. Nathan, Katherine J. Forsythe, William L. Galanter, Kevin Kron, Sara Myers, Joanna Abraham, Sarah K. McCord, Tewodros Eguale, David W. Bates, Gordon D. Schiff. Comparison of a Prototype for Indications-Based Prescribing with 2 Commercial Prescribing Systems. *JAMA Network Open*. 2019;2(3):e191514.
2. Tewodros Eguale T, Buckeridge D, Verma A, Winslade NE, Benedetti A, Hanley J, Robyn Tamblyn. Association of off-label drug use and adverse drug events in an adult population. *JAMA Internal Medicine* 2016;176(1):55-63.
3. Nuria Homedes, Antonio Ugalde. Generic policies: Multisource drug policies in Latin America: Survey of 10 countries. *Bulletin of the World Health Organization* 2005;83:64-70.

#### **ARTICLES IN EDITOR-REVIEWED JOURNALS**

1. Enrique Seoane. Drug Selection and Adverse Drug Reactions: Balancing Outcomes and Costs. Editorial. Editor Reviewed. *Electronic Journal of Biomedicine* 2008;2:3-5.
2. Enrique Seoane. Price of Pharmaceuticals, Value, R&D, and Intergenerational Equity. *Electronic Journal of Biomedicine* 2003;1(2):108-111.
3. Enrique Seoane. Hospital Pharmacoeconomics (I). Spanish. *Foro Sanitario*, 1998;8:14-7.
4. Enrique Seoane. Hospital Pharmacoeconomics (II). Spanish. *Foro Sanitario*, 1998;9:15-18.
5. Stephen Schondelmeyer, Enrique Seoane. Pharmacists are Working Harder. *American Druggist*. Aug 1997:34-39.
6. Stephen Schondelmeyer, Enrique Seoane. 1996 Survey: Prescription Trends. *American Druggist*. Jun 1996:24-29,40.
7. Stephen Schondelmeyer, Enrique Seoane, Eduardo Echarri Arrieta. Spanish Hospital Pharmacy Survey 1995. Spanish. *Boletín Informativo de la SEFH*. Apr-Jun 1996. 100 pp.
8. Enrique Seoane. An Overview of the Spanish Health Care System. *The Communique*. IPS Executive Study Program 1995;22(1):5.
9. Enrique Seoane. Analysis of Mental Health Bill of the Autonomous Community of Galicia. Galician. *Boletín de la Asociación Gallega de Salud Mental*. 1991;17:30-44.

#### **BULLETINS AND TECHNICAL REPORTS**

1. Enrique Seoane, Michael Bennett, Ron Jordan, Jerika Lam, Ariana Langley. Drug Shortages. Actionable Patient Safety Solution (APSS) #3F. Patient Safety Movement Foundation. Nov 22, 2017.
2. Gordon Schiff, Enrique Seoane, Ronen Rozenblum, Rosa Rodriguez-Monguio, Adam Wright, Tewodros Eguale, David Bates. MedAware System Evaluation - Final Summary Report. Boston, MA, Mar 2018
3. Enrique Seoane, Rosa Rodriguez-Monguio. The Impact of Increasing Intellectual Property Regulations on the Pharmaceutical Sector: The Case of the Trans-Pacific Partnership Agreement. New Zealand. Boston, Massachusetts, Sep 1, 2014

4. Enrique Seoane, Rosa Rodriguez-Monguio. Pricing and Reimbursement of Medical Devices in the U.S. Washington, DC: Pan American Health Organization/World Health Organization, Apr 2010. 64 pp.
5. Global Health Care Reimbursement Systems and Decision Processes Working Group. Enrique Seoane - Member. Health Policy Decision Processes Around the World. 2009.
6. C. Daniel Mullins, Brian Seal, Enrique Seoane, Jayashri Sankaranarayanan, Carl V. Asche, Ravishankar Jayadevappa, Won Chan Lee, Dorothy K. Romanus, Junling Wang. Drug Cost Standards Task Force. Good Research Practices for Measuring Drug Costs in Cost-Effectiveness Analyses: Medicare, Medicaid and Other US Government Payers Perspectives: A Report of the ISPOR Drug Cost Task Force – Part IV. International Society for Pharmacoeconomics and Outcomes Research. Aug 1, 2008.
7. Rosa Rodriguez-Monguio, Enrique Seoane, Fernando Antoñanzas Villar, Roberto Rodríguez, Carmelo Juárez Castelló, Mariola Pinillos. Situation and Trends in Health Care Delivery in Spain. Spanish. Logroño: University of La Rioja. Sep 2008. 201 pp.
8. Rosa Rodriguez-Monguio, Enrique Seoane, Fernando Antoñanzas Villar, Roberto Rodríguez, Carmelo Juárez Castelló, Mariola Pinillos. Present and Future of the Provision of Health Care Services in Spain and Selected OECD Countries. Spanish. Logroño: University of La Rioja. Jun 2007. 66 pp.
9. Enrique Seoane, Rosa Rodriguez-Monguio. Improving Access to Pharmaceuticals and Medication Therapy Management for American Indians. Minneapolis, Minnesota. Indian Health Board of Minneapolis. Mar 30, 2007. 191 pp.
10. Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Ohio Public Employees Retirements System Pharmaceutical Program. Confidential Report Prepared for the Ohio Public Employees Retirements System. Columbus: Ohio State University. Mar 2005.
11. Rosa Rodriguez-Monguio, Enrique Seoane. Assessing the Effectiveness of Pharmaceuticals. Spanish. Spanish Agency of Medicines and Health Products, Spanish Ministry of Health. Madrid, Spain. Dec 2005.
12. Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Andean Countries Price Negotiation of HIV drugs and reactivates. Spanish. Washington, DC: Pan American Health Organization / World Health Organization, Mar 28, 2005. 150 pp.
13. Enrique Seoane, Rosa Rodriguez-Monguio, Joe E. Crea. Alternatives for Reform of the Ohio Medicaid Pharmaceutical Sector: I. Analysis of the Pharmaceutical Program. Prepared for the Ohio Commission to Reform Medicaid. Columbus: Ohio Department of Job and Family Services, Dec 30, 2004. 128 pp.
14. Enrique Seoane, Rosa Rodriguez-Monguio, Joe E. Crea. Alternatives for Reform of the Ohio Medicaid Pharmaceutical Sector: II. Alternatives for Reform. Prepared for the Ohio Commission to Reform Medicaid. Columbus: Ohio Department of Job and Family Services, Dec 30, 2004. 129 pp.
15. Enrique Seoane, Shazadh Khan, Francisco Estévez Carrizo, José Rosón López. Strengthening of the Pharmaceutical System of Guyana. InterAmerican Development Bank, Dec. 30, 2003. 138 pp.
16. Enrique Seoane. Increasing Drug Access for the Poor Using Generic Drugs: Regulation and Policy Alternatives. Prepared for the Generic Consultative Group. Washington, DC: The International Bank for Reconstruction and Development / World Bank, Jun 10, 2003. 16 pp.
17. Enrique Seoane. Generic Drug Survey. Survey methodology and questionnaire. Prepared for the Generics Consultative Group. Washington, DC: The International Bank for Reconstruction and Development / The World Bank, May 21, 2003. 17 pp.
18. Enrique Seoane. Drug Financing and Insurance. Background Paper for Development of the World Bank Policy Note on Pharmaceuticals. Washington, DC: The World Bank, Mar 17, 2003. 11 pp.
19. Enrique Seoane. Access to Pharmaceuticals in Developing Countries. Background Paper for Development of the World Bank Policy Note on Pharmaceuticals. Washington, DC: World Bank, Mar 17, 2003. 18pp.
20. Enrique Seoane. Research and Development for Neglected Diseases. Background Paper for Development of the World Bank Policy Note on Pharmaceuticals. Washington, DC: World Bank, Mar 17, 2003. 15 pp.
21. Enrique Seoane, Rosa Rodriguez-Monguio, Stephanie Xueref, Richard J. Shakarchi. Pharmaceutical Sector Profile. Washington, DC: Pan American Health Organization–World Health Organization, Feb 28, 2003. 13pp.

22. Juan Rovira, Rosa Rodriguez-Monguio, Felix Lobo, Enrique Seoane. Analysis of the Indonesian Pharmaceutical Market. Washington, DC: The World Bank, Oct 2002. 32 pp.
23. Stephen Schondelmeyer, Enrique Seoane. Market Exclusivity & Access to Pharmaceutical Products: 1980-2001. Washington, DC: Blue Cross Blue Shield Association. Apr 2002, 6 pp.
24. Stephen Schondelmeyer, Enrique Seoane. Pharmacoeconomic Analysis of Parecoxib for Pain Treatment in Outpatient Surgery and Emergency Room Departments. Confidential report prepared for Pharmacia-Upjohn. Minneapolis: PRIME Institute, University of Minnesota. Sep 2001, 116 pp.
25. Stephen Schondelmeyer, Enrique Seoane. Kansas Pharmacy Services Corporation: Strategic Planning. Minneapolis: PRIME Institute, University of Minnesota. Sep 1999.
26. Stephen Schondelmeyer, Enrique Seoane. Economics of Bone Marrow Transplantation in U.S. Minneapolis: PRIME Institute, University of Minnesota, Feb 1999. 150 pp.
27. C Johnson, Wendy St.Peter, Stephen Schondelmeyer, Enrique Seoane. Positioning and Pricing Hectorol in the Vitamin D Market. Confidential report prepared for Bone Care International, Inc., Madison, Wisconsin. Minneapolis: PRIME Institute, University of Minnesota. Jan 29, 1999, 62 pp.
28. Stephen Schondelmeyer, Enrique Seoane. Medicare & the Vitamin D Analog Market. Minneapolis: PRIME Institute, University of Minnesota, Mar 15, 1999.
29. Stephen Schondelmeyer, Enrique Seoane. Economics of Arthritis and Radiographic Progression: Bibliographic Review. Stephen Schondelmeyer, Enrique Seoane. Minneapolis: PRIME Institute, University of Minnesota. Jun 1997. 35 pp.
30. Stephen Schondelmeyer, Enrique Seoane. Economics of Arthritis and Radiographic Progression. Minneapolis: PRIME Institute, University of Minnesota, Jun 1997. 35 pp.
31. Stephen Schondelmeyer, Enrique Seoane. Alternatives for the Development of Access to Generic Pharmaceutical in Venezuela: Realities and Perspectives of Production, Distribution, and Consumption. Caracas, Venezuela: Fundación Elias Morris Curiel. Mar 1997. 40 pp.
32. Stephen Schondelmeyer, Enrique Seoane. Mechanisms to Increase the Consumption of Generic Pharmaceuticals in Venezuela. Proceedings of Invitational Conference sponsored by Venezuelan Minister of Health & Social Assistance with Fundación Elias Morris Curiel. Caracas, Venezuela: Fundación Elias Morris Curiel. Mar 1997. 27 pp.
33. Stephen Schondelmeyer, Enrique Seoane. Venezuelan Drug Products Which Are Available in the U.S. at Lower Prices. Caracas, Venezuela: Fundación Elias Morris Curiel, Mar. 1997. 130 pp.
34. Stephen Schondelmeyer, Enrique Seoane. Mechanisms to Increase the Consumption of Generic Pharmaceuticals in Venezuela, Report to the President of the Republic of Venezuela (Dr. Rafael Caldera). Caracas, Venezuela: Fundación Elias Morris Curiel, Mar 1997.10 pp.
35. Stephen Schondelmeyer, Enrique Seoane. Venezuelan Law of Medicines: Expected Implications of the Proposed Law. Caracas, Venezuela: Fundación Elias Morris Curiel, Dec. 1996. 38 pp.
36. Stephen Schondelmeyer, Enrique Seoane. International Experience in the Use of Generics. Caracas, Venezuela: Fundación Elias Morris Curiel. Dec. 1996. 260 pp.
37. Enrique Seoane, Stephen Schondelmeyer. Dronabinol Hemossuccinate Suppository: Market Potential and Business Development Assessment. Confidential report prepared for Upsher-Smith Laboratories. Minneapolis: PRIME Institute, University of Minnesota. Sep 1995.
38. Enrique Seoane. Design and Analysis of Pharmacoeconomic Tools: Application to the Galicia's Health Care System. Spanish. Santiago de Compostela: Spanish Health System, Xunta de Galicia. 1989.

## **PUBLISHED PROCEEDINGS OF INVITED SYMPOSIA AND CONFERENCES**

1. Enrique Seoane. Economic causes of drug shortages. In “2013 Drug Shortages Summit: Evaluating Long-Term Solutions.” Drug Shortages Summit. Apr 18, 2013. American Society of Health-Systems Pharmacy. Apr 2, 2014.
2. Enrique Seoane. Drug Quality Assurance. Proceedings of invitational conference. College of Medicine, University Nacional Autónoma of Mexico and the Consejo de Salubridad General. *Gazeta de la Facultad de Medicina*. Spanish. Mexico City: Nov 1998.
3. Stephen Schondelmeyer, Enrique Seoane. Pharmacoeconomics: A Vision of Future. Proceedings of invitational conference. Spanish. *Correo Farmacológico* 1997;1(2): 7-9.
4. Stephen Schondelmeyer, Enrique Seoane. Generic Medicines in Venezuela: Realities and Perspectives of Production, Distribution, and Consumption. Proceedings of invitational conference. Venezuelan Ministry of Health and Fundación Curiel. Caracas, Venezuela: Mar 1997.

## **PODIUM AND POSTER PRESENTATIONS**

### **CONTRIBUTED PEER-REVIEWED PODIUM PRESENTATIONS**

1. Buthainah Ghanem, Vaishali Shukla, Enrique Seoane, Lawrence Brown, Rosa Rodriguez-Monguio. Approvals and prices of gene therapy products authorized by the US Food and Drug Administration and the European Medicines Agency. 149<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO. Oct 24, 2021.
2. Enrique Seoane, Rosa Rodriguez-Monguio. Market failures in the U.S. pharmaceutical sector: The case of antibiotics. 149<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO. Oct 24, 2021.
3. Rosa Rodriguez-Monguio, Mahim Naveed, Rhiannon Croci, Kendall Gross, Erica Langnas, Catherine L. Chen, Enrique Seoane. Perioperative Prescribing Practices of Extended-Release Opioids in Noncancer Surgical Patients, 2015–2018. 148<sup>th</sup> American Public Health Association Annual Meeting. San Francisco, CA. Oct 26, 2020.
4. Rosa Rodriguez-Monguio, María Errea, Enrique Seoane. Prescription Opioid Usage in Patients with Mental Health Disorders. 146<sup>th</sup> American Public Health Association Annual Meeting. San Diego, CA. Nov 12, 2018.
5. María Errea, Rosa Rodriguez-Monguio, Enrique Seoane. Prescription Opioid Usage in Patients with Mental Health Disorders: What can we learn from the opioid crisis in the United States? 37<sup>th</sup> Congress of the Spanish Health Economics Association. Las Palmas de Gran Canaria, Spain. Jun 20, 2018.
6. María Errea, Rodriguez-Monguio, Enrique Seoane. A behavioral model on the decision of seeking care and adhering to treatment. 37<sup>th</sup> Congress of the Spanish Health Economics Association. Las Palmas de Gran Canaria, Spain. Jun 20, 2018.
7. Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistani, Saad Alqahtani. Prices of New Drugs Approved in the United States (1980-2015). 12<sup>th</sup> World Congress of the International Health Economics Association. Boston, MA, Jul 10, 2017.
8. Aaron Nathan, Adam Wright, Gordon Schiff, Lynn Volk, Pamela Neri, Kevin Kron, Sara Myers, Mary Amato, Alejandra Salazar, Enrique Seoane, Tewodros Eguale, Sarah McCord, Rosa Rodriguez-Monguio, Hannah Dym. Prototyping the Future of CPOE: Starting With Indications. American Medical Informatics Association. iHealth 2017 Clinical Informatics Conference. Philadelphia, PA. May 4, 2017.
9. Gordon Schiff, Lynn Volk, Pamela Neri, Aaron Nathan, Kevin Kron, Mary Amato, Alejandra Salazar, Enrique Seoane, Tewodros Eguale, Sarah McCord, Rosa Rodriguez-Monguio, Sara Myers, Adam Wright. Incorporating Medication Indication into CPOE: What Do We Need to build? 144<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO, Nov 1, 2016.
10. Rosa Rodriguez-Monguio, Enrique Seoane, Tai Spargo, Lynn Squillace, Sheryl Szeinbach. FDA Approved Orphan Drugs in the US, 1983-2015: Are patients gaining access to orphan drugs? 144<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO, Oct 31, 2016.
11. Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistani, Saad Alqahtani. Average manufacturer price of new drugs approved in the US, 1980-2014: Trends, driving factors and implications. 144<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO, Oct 31, 2016.

12. Rosa Rodriguez-Monguio, Enrique Seoane, Zaina Qureshi, Tewodros Eguale. Federal and State Policies Addressing Opioid Abuse and Opioid Prescription Drug Use in Massachusetts. 144<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO, Oct 31, 2016.
13. Richard Hansen, Jingjing Qian, Richard Berg, James Linneman, Enrique Seoane, Sarah Dutcher, Saeid Raofi, Peggy Peissig. Comparison of outcomes following a switch from a brand to an authorized vs. independent generic drug. International Society for Pharmacoepidemiology 32<sup>nd</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management. Dublin, Ireland, Aug 25-28, 2016.
14. Saif Alhawwashi, Enrique Seoane, Tewodros Eguale, Rosa Rodriguez-Monguio. Prices of drugs for chronic use with orphan designation in the US (1983-2014). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 23, 2016.
15. Gordon Schiff, Lynn Volk, Pamela Neri, Aaron Nathan, Kevin Kron, Mary Amato, Alejandra Salazar, Enrique Seoane, Tewodros Eguale, Sarah McCord, Rosa Rodriguez-Monguio, Adam Wright. Incorporating Medication Indication into CPOE: What Do We Need to Build? American Medical Informatics Association, iHealth 2016 Clinical Informatics Conference. Minneapolis, MN, May 6, 2016.
16. Stefan Dimario, Enrique Seoane, Tewodros Eguale, Bernard Tyrrell. Analysis of Trends in Utilization and Cost of Insulins in Canada and the US. 143<sup>rd</sup> American Public Health Association Annual Meeting. Chicago, IL, Nov 3, 2015.
17. Enrique Seoane, Tewodros Eguale, Rosa Rodriguez-Monguio, Kholoud Ghazawi, Gordon Schiff. Analysis of Discrepancies in Drug Indications Approved by the US FDA, Health Canada and the European Medicines Agency. 143<sup>rd</sup> American Public Health Association Annual Meeting. Chicago, IL Nov 3, 2015.
18. Tewodros Eguale, Enrique Seoane, Gordon Schiff, Robyn Tamblyn, David Bates, Aman Verma. Pharmacy Drug Dispensing After Physician Discontinuation (Cancel) Orders. International Society for Pharmacoepidemiology 31<sup>st</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management. Boston, MA, Aug 22-26, 2015. *Pharmacoepidemiology & Drug Safety* 2015;24(S1):203-204.
19. Aleksandra Grozdanova, Enrique Seoane, Katerina Anchevska Netkovska, Zoran Sterjev. Legal and ethical dilemma in prescribing and using biosimilars in EU and USA. The 2<sup>nd</sup> Congress of Pharmacists of Montenegro. Becici, Montenegro, May 28, 2015.
20. Vanessa Briceño, Enrique Seoane. Analysis of NICE Drug Technology Appraisals (2001-September 2014) International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting. Philadelphia, PA. May 18, 2015. *Value in Health* 2015; 18(3): A9.
21. Rosa Rodriguez-Monguio, Enrique Seoane. Analysis of the Safety Profile of the New Drugs and Therapeutic Biologics Approved by the FDA between 1980-2013. American Pharmacists Association Annual Meeting & Exposition, San Diego, CA, Mar 27-30, 2015. *Journal of the American Pharmacists Association* 2015;55:e166.
22. Shruti Nambiar, Stacey Lindberg-Springs, Enrique Seoane. Disparity between children and neonatal subpopulations: A review of drugs and biologics approved by the FDA in the period 1980-2012. 142<sup>nd</sup> American Public Health Association Annual Meeting. New Orleans, LA Nov 18, 2014.
23. Rosa Rodriguez-Monguio, Enrique Seoane. Potentially inappropriate antipsychotic use in US nursing homes: A safety concern. 142<sup>nd</sup> American Public Health Association Annual Meeting. New Orleans, LA Nov 19, 2014.
24. Soeun Kwon, Lita Araujo-Lama, Michael Montagne, Enrique Seoane. Assessing the Mechanism of Action of Pharmaceuticals for Psychiatric and Neurological Disorders Approved in the U.S., 1980-2012. American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219.
25. Lita Araujo, Soeun Kwon, Michael Montagne, Enrique Seoane. What do we know about the mechanism of action of drugs in the different drug classes? Assessment of the pharmaceuticals approved by the FDA between 1980 and 2012. 141<sup>st</sup> American Public Health Association Annual Meeting. Boston, MA Nov 5, 2013.
26. Saad Alqahtani, Nasser Alshehri, Ebtissam Badawoud, Enrique Seoane, Rosa Rodriguez-Monguio. A comparison of new drugs approved by the EMA and the FDA in 1999-2011. 141<sup>st</sup> American Public Health Association Annual Meeting. Boston, MA Nov 5, 2013.

27. Joanna Gholmie, Pranav Abraham, Enrique Seoane, Rosa Rodriguez-Monguio. Regulation of medical devices in the European Union and USA: The case of coronary drug-eluting stents. 141<sup>st</sup> American Public Health Association Annual Meeting. Boston, MA Nov 5, 2013.
28. Michael Montagne, Lita Araujo, Soeun Kwon, Enrique Seoane. Constructing Knowledge about the Mechanism of Action of Pharmaceuticals Approved in the U.S., 1980-2011. 5<sup>th</sup> Pharmaceutical Life Cycle International Conference. Amsterdam, Netherlands, Sep 3, 2013.
29. Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L. Szeinbach, Bander Balkhi. Generic Competition in the United States and New Zealand Pharmaceutical Markets: A Comparative Analysis. International Health Economist Association. 8<sup>th</sup> World Congress on Health Economics. Sydney, Australia, Jul 10, 2013.
30. Jing Hao, Rosa Rodriguez-Monguio, Enrique Seoane. Analysis of Combination Drugs Approved in the US from 1980 to 2010. International Health Economist Association. 8<sup>th</sup> World Congress on Health Economics. Sydney, Australia, Jul 10, 2013.
31. Kerry Spielberger, Rosa Rodriguez-Monguio, Enrique Seoane. Risk Evaluation and Mitigation Strategies: Who is Responsible for Drug Safety in the US? 140<sup>th</sup> American Public Health Association Annual Meeting. San Francisco, Oct 30, 2012.
32. Jing Hao, Rosa Rodriguez-Monguio, Enrique Seoane. Public Health Implications and Economics of Combination Drugs: A Review of the Literature on Fluticasone propionate/salmeterol. 140<sup>th</sup> American Public Health Association Annual Meeting. San Francisco, Oct 30, 2012. American Public Health Association Medical Care Section Student Presentation Award 2012.
33. Jing Hao, Rosa Rodriguez-Monguio, Enrique Seoane. Exploring the Relationship between Drug Patent Life and Drug Approvals. 139<sup>th</sup> American Public Health Association Annual Meeting. Washington, DC, Oct 31, 2011.
34. Diane Nguyen, Enrique Seoane, Rosa Rodriguez-Monguio, Michael Montagne, Bernard Tyrrell. Pharmaceutical-Related Warning Letters and Letters of Violation Released by the FDA between 1997 and 2010: Were they affected by Changes in the Federal Administration? 139<sup>th</sup> American Public Health Association Annual Meeting. Washington, DC, Oct 31, 2011.
35. Paul Le, Enrique Seoane, Rosa Rodriguez-Monguio, Michael Montagne. Factors Associated with Drug Shortages in the US. American Association of Pharmaceutical Scientists - Northeast Regional Discussion Group. 2011 Summer Conference. Boston, MA Sep 2, 2011.
36. Kevin Outterson, Rosa Rodriguez-Monguio, Enrique Seoane, John Powers. Analysis of Systemic Antibiotics Approved in the U.S. between 1980 and 2009. 138<sup>th</sup> American Public Health Association Annual Meeting. Denver, CO, Nov 8, 2010.
37. Hong Zhang, Rosa Rodriguez-Monguio, Enrique Seoane. Ethnic and Racial disparities in overweight and obesity-related co-morbidities in Massachusetts. 137<sup>th</sup> American Public Health Association Annual Meeting. Philadelphia, PA, Nov 10, 2009.
38. Rosa Rodriguez-Monguio, Enrique Seoane. Impact of the Waxman-Hatch Act of 1984 on Generic Competition in the U.S. Pharmaceutical Market. 137<sup>th</sup> American Public Health Association Annual Meeting. Philadelphia, PA, Nov 11, 2009.
39. C. Daniel Mullins, Alexandre Lemgruber, Rosa Rodriguez-Monguio, Enrique Seoane. Health Technology Assessment and Pharmaceutical Pricing: Cause or Consequence? Issue Panel Presentation. ISPOR 2nd Latin America Conference. Rio de Janeiro, Brazil. Sep 11, 2009.
40. Rosa Rodriguez-Monguio, Enrique Seoane. Economic Incentives for Orphan Drug Research and Development in the U.S. and Europe. International Health Economist Association. 7<sup>th</sup> World Congress on Health Economics. Beijing, Jul 12, 2009.
41. Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Orphan Drug Designations and Approvals Granted by the EMEA and the USA FDA between 2000 and 2007. International Society for Pharmacoeconomics and Outcomes Research, 11<sup>th</sup> Annual European Congress. Athens, Greece. Nov 10, 2008. *Value in Health* 2009;11(6): A359-A360.

42. Rosa Rodriguez-Monguio, Enrique Seoane, Jay Visaria. 25 Years of the Orphan Drug Act: Analysis of the Orphan Drugs Designated and Approved by the US FDA between 1983 and 2007. 136<sup>th</sup> American Public Health Association, Annual Meeting & Exposition. San Diego, California, Oct 29, 2008.
43. Zaina Qureshi, Sheryl L. Szeinbach, Enrique Seoane. Market Discontinuation of Pharmaceuticals in the United States: Analysis of New Drugs Approved from 1980 to 2007. International Society for Pharmacoeconomics and Outcomes Research, 13<sup>th</sup> Annual International Meeting. Toronto, May 5, 2008. *Value in Health* 2008;11(3): A5.
44. Rosa Rodriguez-Monguio, Jay Visaria, Enrique Seoane. 25 Years of the Orphan Drug Act: Analysis of the New Orphan Drugs Approved Between 1983 and 2007. International Society for Pharmacoeconomics and Outcomes Research, 13<sup>th</sup> Annual International Meeting. Toronto, May 5, 2008. *Value in Health* 2008;11(3): A11.
45. Enrique Seoane, Rosa Rodriguez-Monguio. Effective Patent Life of Antiretroviral Drugs in the U.S 1987-2006: A Public Health Perspective. American Public Health Association, 135<sup>th</sup> Annual Meeting & Exposition. Washington, DC: Nov 06, 2007.
46. Enrique Seoane, Rosa Rodriguez-Monguio. Effective Patent Life of Antiretroviral Drugs in the U.S 1987-2006. International Health Economics Association, 6<sup>th</sup> World Congress. Copenhagen, Denmark. Jul 10, 2007.
47. Rosa Rodriguez-Monguio, Enrique Seoane. Public Procurement and Price Discrimination of Antiretroviral Therapy. International Health Economics Association, 6<sup>th</sup> World Congress. Copenhagen, Denmark. Jul 10, 2007.
48. Jay Visaria, Enrique Seoane, Rosa Rodriguez-Monguio. Antiretroviral Price Negotiations in the Andean Countries: The Role of Indian Generic Manufacturers. 58<sup>th</sup> Indian Pharmaceutical Congress 2006. Mumbai, India. Dec 2, 2006.
49. Sam T. Olaiya, Ken J. Steinman, Enrique Seoane. Potential Savings in Medical Costs Derived from Comprehensive Sex Education Programs for Adolescents. American Public Health Association, 134<sup>th</sup> Annual Meeting. Boston, Massachusetts. Nov 6, 2006.
50. Rosa Rodriguez-Monguio, Enrique Seoane. Negotiating Antiretroviral Drug Prices to Increase Access: The Experience of the Andean Countries. American Public Health Association, 134<sup>th</sup> Annual Meeting Boston, Massachusetts. Nov 6, 2006.
51. Enrique Seoane, Rosa Rodriguez-Monguio, Jay Visaria, Effect of Mail Order Pharmacy in Drug Utilization: Analysis of the Pharmaceutical Program of Ohio PERS. Academy of Managed Care Pharmacy, 2006 Educational Conference. Chicago, Oct 5, 2006.
52. Enrique Seoane, Rosa Rodriguez-Monguio. Negotiating Antiretroviral Drug Prices to Increase Access: Challenges and Opportunities. XVI International AIDS Conference. Toronto, Aug 15, 2006.
53. Enrique Seoane, Rosa Rodriguez-Monguio, Jay Visaria, Effect of Drug Manufacturers' Rebates on Ohio Health Plans Pharmaceutical Expenditures. American Society of Health Economists, 1<sup>st</sup> Congress. Madison, Wisconsin. Jun 5, 2006.
54. Enrique Seoane, Rosa Rodriguez-Monguio. Patents and Generic Entry of New Molecular Entities Approved by the FDA (1980-2001). International Health Economics Association, 5<sup>th</sup> World Congress: Investing in Health. Barcelona, Jul 13, 2005.
55. Rosa Rodriguez-Monguio, Enrique Seoane, Joe E. Crea, Potential Savings from Expanding Use of Generic Drugs in the Ohio Medicaid Program. International Health Economics Association, 5<sup>th</sup> World Congress: Investing in Health. Barcelona, Jul 13, 2005.
56. Enrique Seoane. Analysis of the Patent Life of New Molecular Entities Approved by the FDA between 1980 and 2001. American Pharmacists Association 2004 Annual Meeting and Exposition. Seattle, Washington. Mar 27, 2004. *Journal American Pharmacists Association* 2004; 44(2):226-302(77).
57. Enrique Seoane. Role of the World Bank in the International Pharmaceutical Sector: Trends, Issues and Policy Options. International Health Economics Association. San Francisco, California. Jun 16, 2003.

58. Enrique Seoane, Wendy St. Peters. Economic Aspects of Recombinant Human Erythropoietin in U.S. End-Stage Renal Disease Patients. First International Congress of Nephrology on the Internet. Spanish Society of Nephrology. Madrid, Spain.
59. Enrique Seoane, Fernando Escolante. Regulation of Health Care: Activity Costs, Opportunity Costs, and Economies of Scale. Spanish. XV Annual Meeting. Spanish Health Economists Association. Santiago de Compostela, Spain. Jun 3, 1994.
60. Fernando Escolante Castro, Enrique Seoane. Application of Analytic Accounting to Determine Activity Costs, Opportunity Costs, and Economies of Scale in the Hospital of Conxo. Spanish. VI Meeting of Hospital Costs. Oviedo, Spain. Mar 12, 1994.
61. Antonio Maceira Lema, José Sánchez Acebedo, Francisco Herrera Mena, Juan Maura Domenech, Enrique Seoane. Implementation of a Software Program for Leave of Absence Control at the Hospital of Conxo, Santiago. Spanish. I International & VII National Congress of Preventative Hospital Medicine. Santiago de Compostela, Spain. Sep 22, 1993.

#### **CONTRIBUTED PEER-REVIEWED POSTERS**

1. Roya Hosseini, Sohiela Fawaz, Enrique Seoane. Factors Associated with the Use of Biologic Disease-modifying Antirheumatic Drugs in Patients with Rheumatoid Arthritis. American College of Rheumatology ACR Convergence 2021. Nov 8, 2021.
2. Christopher Vu, Enrique Seoane. Analysis of Prices of Antidepressant Drugs at Market Entry in the US (1978-2020). Virtual ISPOR 2021. May 17-20, 2021. *Value in Health*, 2021:24:S130.
3. Ravi Patel, Enrique Seoane. Price Analysis of Antiepileptic Drugs Marketed in the USA. Virtual ISPOR 2021. May 17-20, 2021. *Value in Health*, 2021:24:S166.
4. Selena M. Preciado, Kamron Lotfi, Enrique Seoane, Rosa Rodriguez-Monguio, Philip Brancazio. The U.S. International Trade of Medical Products in the COVID-19 Era. Virtual ISPOR 2021. May 17-20, 2021. Virtual ISPOR 2021. May 17-20, 2021. *Value in Health*, 2021:24:S116.
5. Hana Althobaiti, Rosa Rodriguez-Monguio, Jelena Lewis, Lawrence B. Brown, Enrique Seoane. Trends in Prices of Insulin Marketed in the U.S. Virtual ISPOR 2021. May 17-20, 2021. Virtual ISPOR 2021. May 17-20, 2021. *Value in Health*, 2021:24:S78.
6. Ravi Patel, Enrique Seoane. Price Analysis of Antiepileptic Drugs Marketed in the USA. American Pharmacists Association (APhA) Virtual Annual Meeting & Exposition, Mar 12-15, 2021.
7. Turki Altowairgi, Mohammed Jamjoom, Enrique Seoane, Rosa Rodriguez-Monguio. Trends in Average Sales Prices of Biologics Reimbursed by the Medicare Part B Program (First Quarter 2010-First Quarter 2020). ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 18, 2020. *Value in Health*, 2020:23:S18-S19.
8. Buthainah Ghanem, Hana Althobaiti, Philippe Gorry, Rosa Rodriguez-Monguio, Enrique Seoane. Assessment of Generic Competition for Orphan Drugs Marketed in the US (1993-2019). ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 18, 2020. *Value in Health*, 2020:23:S138.
9. Mohammed Jamjoom, Hana Althobaiti, Enrique Seoane. Trends in Authorizations and Prices of Biosimilar Products in the US. ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 18, 2020. *Value in Health*, 2020:23:S17.
10. Kamron Lotfi, Hana Althobaiti, Rosa Rodriguez-Monguio, Enrique Seoane. Assessment of the Safety of Oncology Therapeutic Biologic Drugs Using the US FDA Adverse Event Reporting System. ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 18, 2020. *Value in Health*, 2020:23:S57.
11. Roya Hosseini, Enrique Seoane, Abbass Kamalizad. Analysis of the 2018 US FDA Current Good Manufacturing Practices Warning Letters. ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 19, 2020. *Value in Health*, 2020:23:S317.
12. Mohammed Jamjoom, Hana Althobaiti, Enrique Seoane. Insulin Prices in Canada, Saudi Arabia, and the US. ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 20, 2020. *Value in Health*, 2020:23:S123.
13. Salena Preciado, Rosa Rodriguez-Monguio, Enrique Seoane. Human Papillomavirus Vaccine Adverse Events Across Genders Reported to the Vaccine Adverse Events Reporting System (2010-2019). ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 20, 2020. *Value in Health*, 2020:23:S178.



14. Hana Althobaiti, Mohammed Jamjoom, Rosa Rodriguez-Monguio, Jelena Lewis, LB Brown, Enrique Seoane. Trends in Prices of Insulin Marketed in the US (1984-2020). ISPOR 25<sup>th</sup> Annual International Meeting, Orlando, FL, May 20, 2020. *Value in Health*, 2020;23:S118.
15. Salena M. Preciado, Enrique Seoane, Rosa Rodriguez-Monguio. Surveillance of Vaccine Adverse Events in Pregnant Women Reported to the Vaccine Adverse Events Reporting System (2010-2019). NFID 2020 Annual Conference on Vaccinology Research (ACVR). Washington, DC, Mar 23-25, 2020.
16. Dhruv Patel, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of Drug Indications Proposed by Sponsor Companies, Recommended and Approved by the FDA. American Pharmacists Association (APhA) Annual Meeting & Exposition, National Harbor, MD, Mar 20-23, 2020.
17. Catherine Pham, Enrique Seoane, Hana Althobaiti, Kim N. Le, Amarylis C. Gutierrez. Safety and efficacy of disease-modifying biologic therapies in multiple sclerosis using the FDA Adverse Event Reporting System. 2019 ASHP Midyear Clinical Meeting, Las Vegas, NV, Dec 10, 2019.
18. Mohammed Jamjoom, Hana Althobaiti, Enrique Seoane. Pricing Comparison of Biosimilars and Reference Biologic Products in the US. ISPOR Europe 2019, Copenhagen, Denmark, Nov 5, 2019.
19. Mona Alsheikh, Ali Alshahrani, Reem Almutairi, Hana Althobaiti, Enrique Seoane. Analysis of Gabapentinoids Abuse in the Middle East and North Africa Region Utilizing the Food and Drug Administration Adverse Events Reporting System Database. ISPOR Europe 2019, Copenhagen, Denmark, Nov 5, 2019. *Value in Health*, 2019;22:S602.
20. Anhar M Alyousef, Saleh Alsaqoub, Abdulrhman AlQuifly, Rawan Alhaqban, Reem Almutairi, Enrique Seoane, Mohammed Almutairi, Hussain Al-Omar. Trends in the Registration of Therapeutic Biologics by the Saudi FDA (1989-May 2019). ISPOR Europe 2019, Copenhagen, Denmark, Nov 5, 2019. *Value in Health*, 2019;22:S426.
21. Reem Almutairi, Enrique Seoane, Mohammed Almutairi, Hussain Al-Omar, Mona Alsheikh. Trends in the Therapeutic Biologics Authorized by FDA, EMA and the SAUDI FDA in the Period 1996-2018 ISPOR Europe 2019, Copenhagen, Denmark, Nov 5, 2019. *Value in Health*, 2019;22:S423.
22. Philippe Gorry, Enrique Seoane. Drug Safety Scientometrics Overview Highlights Public Health Issues. 17<sup>th</sup> International Conference on Scientometrics & Informetrics. Rome, Italy, Sep 3, 2019.
23. Vaishali Shukla, Enrique Seoane, Rosa Rodriguez-Monguio. Advanced Therapy Medicinal Products Innovation, Pricing and Competition. 2019 International Health Economics Association World Congress. Basel, Switzerland, Jul 13, 2019.
24. Salena Preciado, Souhiela Fawaz, Tania Gregorian, Hana Althobaiti, Mohammed Jamjoom, Enrique Seoane. Analysis of Vaccine Adverse Events in Pregnant Women in the US (2014-2018). Mar 21, 2019. ISPOR 24<sup>th</sup> Annual International Meeting, New Orleans, LA, May 20, 2019. *Value in Health*, 2019;22:S203.
25. Hana Althobaiti, Roya Hosseini, Salena M. Preciado, Mohammed Jamjoom, Enrique Seoane. Trends in Prices of Insulin Marketed in the US. ISPOR 24<sup>th</sup> Annual International Meeting, New Orleans, LA, May 20, 2019. *Value in Health*, 2019;22:S149.
26. Dustin Nguyen, Enrique Seoane. Stock Market Prices and Volume of Small Cap Public Companies that Approved a New Drug in the US (2015-2017). American Pharmacists Association Annual Meeting, Seattle, WA. Mar 23, 2019.
27. Trung Le, Enrique Seoane. Prevalence of Type 2 Diabetes and Approved Pharmacological Agents in the United States. American Pharmacists Association Annual Meeting, Seattle, WA. Mar 23, 2019.
28. Moom Roosan, Mohammed Jamjoom, Enrique Seoane. Analysis of Pharmacogenomics Actionable Drugs in the United States from 1980 to 2017. American Pharmacists Association Annual Meeting, Seattle, WA. Mar 23, 2019.
29. Salena M. Preciado, Ahmed Aoun, Mekdes Megeressa, Enrique Seoane. Vaccine Price Analysis: Evaluating Price Trends of FDA Approved Vaccines in the United States. American Pharmacists Association Annual Meeting, Seattle, WA. Mar 23, 2019.

30. Mohammed Jamjoom, Hana Althobaiti, Roya Hosseini, Saud Alshammari, Cassandra Dill, Enrique Seoane. Pricing Strategies of Biosimilar and Reference Biologic Products in the US. American Pharmacists Association Annual Meeting, Seattle, WA. Mar 23, 2019.
31. Hana Althobaiti, Roya Hosseini, Nedaa Alomari, Mohammed Jamjoom, Rosa Rodriguez-Monguio, Enrique Seoane. Biosimilars, is the FDA finally catching up with the EMA? American Pharmacists Association Annual Meeting, Seattle, WA. Mar 23, 2019.
32. Rawan H. Alhaqbani, Anhar M. Al-Yousef, Mona Alsheikh, Enrique Seoane, Reem Almutairi. Trends in the Approval of Therapeutic Biologics by US-FDA in the Period 2000-2018. Dubai International Pharmaceutical & Technology Conference & Exhibition. Dubai, United Arab Emirates Feb 26, 2019. Second Best Pharmacy Student Innovative Poster Award.
33. Reem Almutairi, Enrique Seoane, Rosa Rodriguez-Monguio. Trends in Drug Prices before and After Generic Competition in the US (2014-2016). ISPOR European Meeting, 2018. Barcelona, Spain, Nov 13, 2018. *Value in Health* 2019;21(Suppl. 3):s401.
34. Hana Althobaiti, Mona Alsheikh, Enrique Seoane, Jelena Lewis, Lawrence Brown. Initial Antidiabetic Pharmacotherapy Prescribed to Patients with Newly Diagnosed Type-2 Diabetes in a Commercial Health Plan in the United States. ISPOR European Meeting, 2018. Barcelona, Spain, Nov 13, 2018. *Value in Health* 2019;21(Suppl. 3):s134.
35. Roya Hosseini, Mona Alsheikh, Nupur Greene, Enrique Seoane, Christy Harris, Erin Fox, Rosa Rodriguez-Monguio. Factors Associated with the Incidence of Oncology Drugs Shortages in the United States (2001-2017). ISPOR European Meeting, 2018. Barcelona, Spain, Nov 13, 2018. *Value in Health* 2019;21(Suppl. 3):s372.
36. Mona Alsheikh, Enrique Seoane, Alex Barrett, Cyril Rakovski, Lawrence Brown, Souhiela Fawaz, Daniel Tomaszewski, Rosa Rodriguez-Monguio. Trends in Opioid Prescribing in Primary Care Physician Offices in the United States: 2006-2015. ISPOR European Meeting, 2018. Barcelona, Spain, Nov 13, 2018. *Value in Health* 2019;21(Suppl. 3):s372.
37. Jelena Lewis, Tiffany Nguyen, Hana Althobaiti, Brad Borsari, Suzanne Cooper, David S. Kim, Enrique Seoane. Outcomes of Pharmacist Led Diabetes Management under Collaborative Practice Agreement in a Patient-Centered Medical Home. 2018 California Health-Systems Pharmacist Association. Seminar. San Diego, CA, Oct 6, 2018.
38. Minette-Joëlle Zeukeng, Enrique Seoane, Pascal Bonnabry. A Comparison of New Drug Approved by the FDA, the EMA and Swissmedic: An Assessment of the International Harmonization of Drugs. Swiss Academy of Pharmaceutical Sciences. 11<sup>th</sup> Swiss Pharma Science Day 2018. Bern, Switzerland, Aug 22, 2018.
39. Joseph Kim, Esther Min, Kristy Nishikawa, Priya Patel, Lila Rouzitalab, Dan Tomaszewski, Enrique Seoane. Trends in Approval of Therapeutic Biologic Approved by the US Food and Drug Administration (1986–2017). ISPOR 23<sup>rd</sup> Annual International Meeting. Baltimore, MD, May 22, 2018. *Value in Health* 2018;21(Suppl 1): S94.
40. Mona Alsheikh, Vaishali Shukla, Enrique Seoane. Trends in Approval of Advanced Therapy Medicinal Products Approved by the US Food and Drug Administration. ISPOR 23<sup>rd</sup> Annual International Meeting. Baltimore, MD, May 23, 2018. *Value in Health* 2018;21(Suppl 1): S261.
41. Minette Zeukeng, Enrique Seoane. Comparison of Food and Drug Administration, European Medicine Agency and Swissmedic New Drug Approval: An Assessment of the International Harmonization. ISPOR 20th Annual European Meeting. Glasgow, Scotland, Nov 7, 2017. *Value in Health* 2017;20(9): A657.
42. Ali Alshahrani Enrique Seoane, Rosa Rodriguez-Monguio, Lita Araujo Lama, Tewodros Eguale. Price Analysis of HIV Antiretroviral Drugs Marketed in the United States (1987-2015). ISPOR 20th Annual European Meeting. Glasgow, Scotland, Nov 8, 2017. *Value in Health* 2017;20(9): A780-A781
43. Ali Alshahrani Enrique Seoane, Rosa Rodriguez-Monguio, Lita Araujo Lama, Tewodros Eguale. A Comparison of Antiretroviral Drugs Approved in the US and Europe in the period 1987-2015. ISPOR 20th Annual European Meeting. Glasgow, Scotland, Nov 8, 2017. Research Presentation Award Finalist. *Value in Health* 2017;20(9): A795-A796.

44. Alshehri A, Enrique Seoane, Rosa Rodriguez-Monguio, Schneider T, Tewodros Eguale. Comparison of HIV Antiretroviral Drugs Prices in the US and Canada. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A75.
45. Alharbi A, Enrique Seoane. A Comparison of the Prices of HIV Antiretroviral Drugs Marketed in Kuwait and the US. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A84.
46. Fatema Turkistani, Enrique Seoane, Rosa Rodriguez-Monguio, Bin Sawad A. Approvals and Discontinuations of New Molecular Entities and Therapeutic Biologic License Applications in the United States (1986-2015). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A16.
47. Al-Mutairi R, Rosa Rodriguez-Monguio, Szeinbach SL, Tewodros Eguale, Tyrrell B, Enrique Seoane. Generic Competition in the US (1980-2016). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A20.
48. Alqahtani SS, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale, Tyrrell B. Trends in Prices of New Systemic Antibiotics Approved by the FDA (1999-2016). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A29.
49. Turkistani F, Enrique Seoane, Rosa Rodriguez-Monguio, Bin Sawad A. Price Analysis of Therapeutic Biologics Marketed in the United States. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A30.
50. Daniels K, Hariharan D, Enrique Seoane. Prices of Tuberculosis Drugs Marketed in the US (1973-2016). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A33.
51. Gannu L, Daniels K, Enrique Seoane, Sheryl L. Szeinbach. Prices of Biosimilars in the US. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A33.
52. Turkistani F, Enrique Seoane, Rosa Rodriguez-Monguio, Bin Sawad A. Availability of Economic Data for Therapeutic Biologic Drugs in the US. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A53.
53. Alyahya S, Tewodros Eguale, Enrique Seoane. The Role of Epidemiology in Health Economic and Outcomes Research: A Thyroid Cancer, Retrospective, Population-Based Study. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A93.
54. Alsahali S, Alzarea AI, Enrique Seoane, Al Yahya S, Tewodros Eguale. Regulatory Approval and Price Analysis of Anti-Androgen Drugs Marketed in the United States and Used in Hormonal Therapy in Advanced Prostate Cancer. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A100.
55. Alyahya S, Tewodros Eguale, Enrique Seoane. Price Analysis of Thyroid Cancer- Tyrosine Kinase Inhibitor Drugs Marketed in the US. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5): A104.
56. Pranav S. Abraham, Greene M, Tewodros Eguale, Rosa Rodriguez-Monguio, Enrique Seoane. Impact of Payer on Healthcare Resource Utilization and Costs among Breast Cancer Patients in India. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5):A128.
57. Pranav S. Abraham, Greene M, Tewodros Eguale, Rosa Rodriguez-Monguio, Enrique Seoane. Impact of Payer on Healthcare Resource Utilization and Costs among Oral Cancer Patients in India. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5):A128.
58. Pranav S. Abraham, Greene M, Tewodros Eguale, Rosa Rodriguez-Monguio, Enrique Seoane. Impact of Payer on Healthcare Resource Utilization and Costs among Ovarian Cancer Patients in India. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5):A128.
59. Alghamdi A, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Impact of the Affordable Care Act and the 2011 FDA Safety Communication on the Utilization of Biologic Disease-Modifying Anti-Rheumatic Drugs in the Medicaid Outpatient Pharmacy Program. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5):A152.

60. Alghamdi A, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of Formulary Coverage and Cost of Biologic Disease-Modifying Anti-Rheumatic Drugs in Medicare Part D. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 22, 2017. *Value in Health* 2017;20(5):A152.
61. Adnan Alsumali, Al-Hawage A, Rittenhouse B, Enrique Seoane, Tewodros Eguale. Systematic Assessment of Decision Analytic Models for the Cost-Effectiveness of Bariatric Surgery. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A221.
62. Adnan Alsumali, Tewodros Eguale, Bairdain S, Rittenhouse B, Enrique Seoane, Samnaliev M. Cost-Effectiveness of Bariatric Surgery for Morbid Obesity in USA. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A222.
63. Lim-Watson M, Ida F, Kodeih R, Enrique Seoane. Price Trends of Orphan Designated Hemophilia Drugs in the United States. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A230.
64. Alsharaimy F, Chong D, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale. A Comparison of Antiepileptic Drugs Approved by the US Food and Drug Administration and Health Canada. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A199.
65. Sultan I, Amamoo JJ, Gannu L, Enrique Seoane. A Comparison of Trends in Insulin Prices and the Gross Domestic Product in the US (1983-2016). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A168.
66. Alanazi A, Alyahya S, Goswami H, Enrique Seoane. Price Analysis of Antidepressant Medications Marketed in the US. ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A296.
67. Alyami F, Tewodros Eguale, Enrique Seoane, Rosa Rodriguez-Monguio. A Comparison of Antipsychotic Drugs Approved by the US Food and Drug Administration and Health Canada (1950-2015). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 23, 2017. *Value in Health* 2017;20(5):A305.
68. Alshahrani A, Enrique Seoane, Rosa Rodriguez-Monguio, Araujo L, Tewodros Eguale. Analysis of Formulary Coverage and Cost of Human Immunodeficiency Virus Antiretroviral Drugs in Medicare Part D (2006-2015). ISPOR 22<sup>nd</sup> International Meeting. Boston, MA, May 24, 2017. *Value in Health* 2017;20(5):A366.
69. Malerie Dooling, Matthew Machado, Ameer Mistry, Enrique Seoane. Assessment of Patient Engagement and Satisfaction in Community Pharmacy to Increase Pneumococcal Vaccination Rates in High-Risk Patients. American Pharmacists Association Annual Meeting & Exposition, Mar 24-27, 2017, San Francisco, CA. *Journal of the American Pharmacists Association*, 2017;57(3):e48.
70. Motiur Rahman, Yasser Alatawi, Ning Cheng, Jingjing Qian, A Plotkina, Richard Hansen, Enrique Seoane, Peggy L. Peissig, Richard Berg, David Page. Comparison of brand versus generic antiepileptic drug adverse event reporting rates in the U.S. Food and Drug Administration Adverse Event Reporting System (FAERS). American Pharmacists Association Annual Meeting, Mar 24-27, 2017, San Francisco, CA. *Journal of the American Pharmacists Association*, 2017;57(3): e104.
71. Yasser Alatawi, Motiur Rahman, Ning Cheng, Jingjing Qian, Richard Hansen, Enrique Seoane, Peggy L. Peissig, Richard Berg, David Page. Brand vs. generic adverse event reporting patterns: An authorized generic-controlled evaluation of cardiovascular medications. American Pharmacists Association Annual Meeting, Mar 24-27, 2017, San Francisco, CA. *Journal of the American Pharmacists Association*, 2017;57(3):e103.
72. Ning Cheng, Motiur Rahman, Yasser Alatawi, Jingjing Qian, Richard Hansen, Enrique Seoane, Peggy L. Peissig, Richard Berg, David Page. Adverse Event Reports of Suicide and Suicidal Ideation for Brand Compared with Generic Central Nervous System Drugs. American Pharmacists Association Annual Meeting, Mar 24-27, 2017, San Francisco, CA. *Journal of the American Pharmacists Association* 2017;57(3):e66.

73. Motiur Rahman, Yasser Alatawi, Ning Cheng, Jingjing Qian, Richard Hansen, Enrique Seoane, Peggy L. Peissig, Richard Berg, David Page. Methodological Considerations for Comparison of Brand Versus Generic Versus Authorized Generic Adverse Event Reports in the U.S. Food and Drug Administration Adverse Event Reporting System (FAERS). American Pharmacists Association Annual Meeting, Mar 24-27, 2017, San Francisco, CA. *Journal of the American Pharmacists Association* 2017;57(3):e106.
74. Leo Buckley, Enrique Seoane, Judy W Cheng, Ahmed Aldemerdash, Irene M Cooper, Lina Matta, Danika S Medina, Mandeep R Mehra, Kristina Navarro-Velez, Elaine L Shea, Joanne R Weintraub, Lynne W Stevenson, Akshay S Desai. Financial implications of ambulatory diuretic therapy instead of hospitalization for the treatment of decompensated heart failure. Health Failure Society of America. 20<sup>th</sup> Annual Scientific Meeting. Sep 29, 2016. *Journal of Cardiac Failure* 2016;22(8):S104-S105.
75. Richard Hansen, Jingjing Qian, Richard Berg, James Linneman, Enrique Seoane, Sarah Dutcher, Saeid Raofi, Peggy Peissig. Comparison of generic-to-brand switchback patterns for authorized generic vs. independent generic drugs. International Society for Pharmacoepidemiology 32<sup>nd</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management. Dublin, Ireland, Aug 25-28, 2016. *Pharmacoepidemiology and Drug Safety* 2015;25:355-356.
76. Alasmari MS, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale, Sheryl Szeinbach. A comparison of cardiovascular drugs approved by the U.S. Food and Drug Administration and Health Canada (1980-2014). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 23, 2016. Best Research Poster Award Finalist. *Value in Health* 2016;19(3):A58.
77. Aseel Bin Sawad, Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistani. Cost-effectiveness of different strategies for treatment of relapsing-remitting multiple sclerosis. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 23, 2016. *Value in Health* 2016;19(3):A62.
78. Aseel Bin Sawad, Enrique Seoane, Rosa Rodriguez-Monguio, Fatema Turkistani. Comparing the expanded disability status scale versus the multiple sclerosis functional composite as clinical endpoints in multiple sclerosis clinical trials: a quantitative meta-analysis. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 23, 2016. *Value in Health* 2016;19(3):A73.
79. José Paredes, Liu C, Yunusa I, Ndikumukiza C, Enrique Seoane. Price analysis of oral antidepressant drugs with generic competition marketed in the US (1988-2015). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A188.
80. Kaabi A, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach, Tewodros Eguale. A comparison of antidepressant drugs approved by the U.S. Food and Drug Administration and Health Canada (1959-2015). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. Best Research Poster Award Finalist. *Value in Health* 2016;19(3):A193.
81. Nupur Greene, Enrique Seoane, Rosa Rodriguez-Monguio, Harris C. Approvals, discontinuations and price analysis of brand breast cancer drugs in the US (1990-2014). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A145.
82. Nupur Greene, Enrique Seoane, Rosa Rodriguez-Monguio, Fox E, Harris C. Analysis of the prevalence of shortages of oncology drugs in the United States (2000-2014). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A162.
83. Oak B, Nambiar S, Enrique Seoane, Tewodros Eguale. Health care utilization and costs associated with breast and female genital system cancers: An analysis using the 2013 MEPS database. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A166.
84. Alghamdi A, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale, Sheryl Szeinbach. Price analysis of biological disease-modifying anti-rheumatic drugs marketed in the US. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A229.
85. Bander Balkhi, Enrique Seoane, Rosa Rodriguez-Monguio. Prices analysis of osteoporosis drugs marketed in the US (1988-2014). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A230.
86. Christina Kwon, Enrique Seoane, Rosa Rodriguez-Monguio. Price trends and analysis of antidiabetic drugs marketed in the US in the period 1980-2014. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A201.

87. Christina Kwon, Enrique Seoane, Rosa Rodriguez-Monguio. Cost-effectiveness analysis of pharmacological treatment pathways for type 2 diabetes drugs. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A202.
88. Alqahtani M, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach, Tewodros Eguale. A comparison of anti-type 2 diabetes mellitus drugs in Canada, USA and UK between 1958-2015. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A209.
89. Stefan DiMario, Enrique Seoane, Tewodros Eguale, Bernard Tyrrell. Analysis of trends in utilization and cost of insulin in the United States and Canada. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A209.
90. Smith C, Joo Hyeon K, Vanessa Briceno, Farrah Pompilus, Shukla V, Enrique Seoane. A review of pricing of orphan drugs for leukemia in the United States vs. England. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A245.
91. Rajan Thumar, Enrique Seoane, David Mantus, Bernard Tyrrell. Analysis of the ultra-orphan drugs approved by the FDA in the period 1983-2014. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. *Value in Health* 2016;19(3):A255.
92. Fatema Turkistani, Alotaibi A, Alnafesah A, Enrique Seoane. Price analysis of therapeutic biologics approved by the US Food and Drug Administration. (1986–October 2015). ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 25, 2016. *Value in Health* 2016;19(3):A271.
93. Alghamdi A, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale, Sheryl Szeinbach. Utilization and expenditures in anti-tumor necrosis factor drugs in Medicare Part D in 2013: A cross-sectional analysis. ISPOR 21<sup>st</sup> Annual International Meeting, Washington, DC, May 25, 2016. *Value in Health* 2016;19(3):A272.
94. Gordon Schiff, Lynn Volk, Pamela Neri, Aaron Nathan, Kevin Kron, Mary Amato, Alejandra Salazar, Enrique Seoane, Tewodros Eguale, Sarah McCord, Rosa Rodriguez-Monguio, Adam Wright. Incorporating Medication Indication into CPOE Ordering: Views of Physicians and Pharmacists. 3<sup>rd</sup> Annual Brigham and Womens Hospital, Division of General Internal Medicine and Primary Care Research Day. May 6, 2016
95. Gordon Schiff, Lynn Volk, Pamela Neri, Aaron Nathan, Kevin Kron, Mary Amato, Alejandra Salazar, Enrique Seoane, Tewodros Eguale, Sarah McCord, Rosa Rodriguez-Monguio, Adam Wright. Incorporating Medication Indication into CPOE Ordering: Views of Physicians and Pharmacists. Society of General Internal Medicine, 2016 Annual Meeting. Hollywood, FL, May 11-14, 2016. *Journal of General Internal Medicine* 2016;31(2 suppl. 1) S274-S275.
96. Bander Balkhi, Enrique Seoane, Rosa Rodriguez-Monguio, Kim Seoyoung. Changes in the utilization of osteoporosis drugs after the 2010 FDA bisphosphonate drug safety communication: An evaluation of the US Medicaid program. 2016 World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases. Malaga, Spain, May 14, 2016. *Osteoporosis International* 2016; 27 (1 Suppl. 1):S198.
97. Reem Almutairi, Enrique Seoane. Changes in the Safety Profile of Oral Diabetes Medications Approved by the FDA. American Pharmacists Association Annual Meeting & Exposition. Baltimore, MD, Mar 4-7, 2016.
98. Stacey Lindberg-Springs, Enrique Seoane. Impact of Drug Shortages on frequently used Neonatal Intensive Care Unit (NICU) Medications. American Pharmacists Association Annual Meeting & Exposition. Baltimore, MD, Mar 4-7, 2016. *Journal of the American Pharmacists Association* 2016;56(3):e.Enrique Seoane, Rosa Rodriguez-Monguio. Trends in Average Manufacturer Prices of New Drugs with Oral Formulations in the US (1980-2013). American Pharmacists Association Annual Meeting & Exposition. Baltimore, MD, Mar 4-7, 2016. *Journal of the American Pharmacists Association* 2016;56(3):e127.
99. Ebtissam Badawoud, Enrique Seoane, Hani Alhamdan, Susan Jacobson. Automation of Hospital Medication Distribution Systems in the US. American Pharmacists Association Annual Meeting & Exposition. Baltimore, MD, Mar 4-7, 2016. *Journal of the American Pharmacists Association* 2016;56(3):e110.
100. Charles Patrick Callahan III, Vatche Demirjian, Nehali Shah, Enrique Seoane. Profiling Survey of Post-PharmD Fellowship Industry Preceptors: A Pilot Investigation. American Society of Health-Systems Pharmacy, 50<sup>th</sup> Midyear Clinical Meeting and Exposition. New Orleans, LA. Dec 8, 2015.

101. Ebtissam Badawoud, Enrique Seoane, Hani Alhamdan, Susan Jacobson. Automation of Hospital Medication Distribution Systems in the US. International Federation of Pharmacy 75<sup>th</sup> World Congress of Pharmacy and Pharmaceutical Sciences. Düsseldorf, Germany, Sep 29-Oct 3, 2015.
102. Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale. Trends in the Safety of New Molecular Entities and Therapeutic Biologics Approved by the FDA (1980-2014). International Society for Pharmacoepidemiology 31<sup>st</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management. Boston, MA, Aug 22-26, 2015. *Pharmacoepidemiology & Drug Safety* 2015;24(S):477-478.
103. Stacey Lindberg-Springs, Shruti Nambiar, Enrique Seoane. Impact of pediatric regulation on availability of neonate drug information. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3): A112-A113.
104. Bin Sawad A, Enrique Seoane, Rosa Rodriguez-Monguio. Price analysis of multiple sclerosis disease-modifying therapies marketed in the US. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A282.
105. Adnan Alsumali, Enrique Seoane, Tewodros Eguale, Rania Mekary. Analysis of the drug price reviews performed by the Canadian Patented Medicine Prices Review Board (1998-2014). International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3): A73-A74.
106. Moon J, Nkurunziza J, Jambi A, Enrique Seoane, Qian J, Hansen RA. Generic competition and authorized generics in the United States. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A92.
107. Alhawwashi ST, Alshaharni AM, Alsaahali SM, Alasmari MS, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L Szeinbach. Trends in approvals of new drugs with orphan designation in the US (1983-2014). International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A302.
108. Alqahtani SS, Rosa Rodriguez-Monguio, Enrique Seoane, Tewodros Eguale, Zeukeng MJ, Sheryl Szeinbach. Tracking the sponsoring country of incorporation for new drugs approved by the US FDA in the period 1980-2014: a trend analysis. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. Best Research Poster Award Finalist. *Value in Health* 2015; 18(3):A72.
109. Abdulrahman Alshehri, Enrique Seoane, Tulip Schneider, Rosa Rodriguez-Monguio. HIV antiretroviral drug utilization and expenditures in Medicaid 1991-2014. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3): A245.
110. Zeukeng MJ, Enrique Seoane, Sheryl Szeinbach. Assessing the availability of drugs marketed in the US and Switzerland. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A79.
111. Alzarea AI, Alharbi A, Algarni M, Enrique Seoane, Rosa Rodriguez-Monguio. Comparative analysis of HIV antiretroviral drugs approvals and prices in the US and Saudi Arabia. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A234.
112. Pompilus FA, Lindberg-Springs S, Enrique Seoane. A review of clinical outcome assessments used in FDA approved drug labels for mental health conditions. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A123.
113. Mahida SR, Enrique Seoane, Klinger E, Salazar A, HER QL, Medoff J, Amato M, Dykes PC, Haas J, Bates D, Schiff G. Cost of reporting possible adverse drug reactions in medical outpatients using a telephonic interactive voice response system. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3): A257.

114. Almutairi H, Alzarea AI, Enrique Seoane, Mekary R. Geographic differences in availability of antihypertensive medications: a comparison of Australia, Canada, Saudi Arabia, UK, and the US. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3): A135-A136.
115. Grozdanova A, Olasupo O, Enrique Seoane. An assessment of the therapeutic biologic products licensed by the FDA and the EMA. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A282.
116. Al-Mutairi R, Enrique Seoane. Changes in the safety profile of oral diabetes medications approved by the FDA. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia, PA. May 16-20, 2015. *Value in Health* 2015; 18(3):A282.
117. Nasser Alshehri, Saad Alqahtani, Ebtissam Badawoud, Enrique Seoane, Rosa Rodriguez-Monguio. Differences in Labeled Indications of Priority Review Drugs Approved by the FDA and the EMA; Time for International Regulatory Harmonization of Pharmaceuticals? American Pharmacists Association Annual Meeting & Exposition. San Diego, CA, Mar 27-30, 2015. *Journal of the American Pharmacists Association* 2015;55(2):e166.
118. Mina Kim, Snehal Bhatt, Enrique Seoane. Trends of renal function monitoring and the correlation to the risk of bleeding in elderly patients receiving dabigatran. 2014 Midyear Clinical Meeting. Anaheim, CA, Dec 7-11, 2014.
119. Leo Buckley, Lina Matta, Enrique Seoane, Judy Cheng, Lynne Stevenson, Akshay Desai. Evaluation of efficacy and safety outcomes in a heart failure diuretic infusion clinic with a decision analysis model. 2014 Midyear Clinical Meeting. Anaheim, CA, Dec 7-11, 2014.
120. Aziz S, Maloy E, O'Shea T, Enrique Seoane, Hudd T. Collaborating with community-based groups to promote self-awareness, innovation, and professionalism among PY4 PharmD. 2014 Midyear Clinical Meeting. Anaheim, CA, Dec 7-11, 2014.
121. Sandra Aziz, Emilie Maloy, Timothy O'Shea, Enrique Seoane, Timothy Hudd. Collaborating with community-based groups to promote self-awareness, innovation, and professionalism among PY3 PharmD students. 10<sup>th</sup> Annual New England Pharmacists Convention. Ledyard, CT. Oct 23-24, 2014. Best Poster in the Pharmacy Student Integration Category.
122. Nupur Greene, Fatema A. Turkistani, Enrique Seoane, Rosa Rodriguez-Monguio. Trends in Approvals and Prices of Oncology Drugs in the US (1990-2013). International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A81.
123. Lita Araujo, Bander Balkhi, Enrique Seoane. Assessment of Pharmaceutical Products Approved by the US FDA and Registered in Peru. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A13.
124. Bander Balkhi, Abdulrahman Alshehri, Sheryl Szeinbach, Enrique Seoane. Trends in Medicaid Fee-For-Service Outpatient Drug Utilization, Expenditures and Pharmacy Reimbursement Rates (2010-2012). Best Student Poster Research Presentation Award. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A16-17.
125. Rosa Rodriguez-Monguio, Enrique Seoane. Pharmaceutical Companies Pricing Strategies after Generic Entry into the New Zealand Market. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A13-A14.
126. Nasser A. Alshehri, Saad S. Alqahtani, Ahmad A. Alghamdi, Ahmad M. Alharbi, Reem D. Al-Mutairi, Amal F. Alotaibi, Ali Alshahrani, Adnan Alsumali, Ebtissam M. Badawoud, Aseel H. Bin Sawad, Fatema A. Turkistani, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of Average Manufacturer Prices of New Drugs Approved in the US (1990-2012). International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A18-A19.



127. Pranav Abraham, Joanna Gholmie, Rosa Rodriguez-Monguio, Enrique Seoane. A Comparison of the Medicare Average Sales Price and the Average Wholesaler Price. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A19.
128. Mona Alsheikh, Kholoud Ghazawi, Doaa Felemban, Enrique Seoane, Rosa Rodriguez-Monguio, Erin Fox, Sheryl Szeinbach. Shortages of Drugs with Approved Orphan Indications in the US. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. *Value in Health* 2014;17(3);A23.
129. Shruti Nambiar, Lindberg-Springs S, Enrique Seoane. Neonatal Information on Approved Drug Labels: An Analysis of Consistency in Drug Labeling. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 3, 2014. *Value in Health* 2014;17(3);A167.
130. Soeun Kwon, Enrique Seoane. Trends of Approval and Prices of Brand Diabetes Medications. ISPOR 19<sup>th</sup> Annual International Meeting. International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 4, 2014. *Value in Health* 2014;17(3);A260.
131. Rimsans JM, Adra M, Brockmeyer D, Bello N, Enrique Seoane, Bhatt SH. Incidence and management of major bleeding in elderly patients initiated on dabigatran. Thrombosis and Hemostasis Summit of North America. Chicago, IL, Apr 11, 2014. *American Journal of Hematology* 2014;89(6):E68.
132. Ali Alshahrani, Aseel Bin Sawad, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Effective Patent Life of New Pharmaceuticals Approved by the US FDA in the Period 1985-2012. American Pharmacists Association Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219.
133. Timothy Hudd, Suzanne Bollmeier, Enrique Seoane. Pharmacists as certified asthma educators (AE-C): What is the impact of the AE-C and why aren't more pharmacists certified? American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219.
134. Bander Balkhi, Abdulrahman Alshehri, Enrique Seoane, Sheryl Szeinbach. Do Characteristics of the Medicaid Population Explain Differences in Medicaid fee-for-service Generic Outpatient Drug Utilization and Reimbursement? American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219.
135. Ebtissam M. Badawoud, Nasser Alshehri, Saad Alqahtani, Enrique Seoane; Rosa Rodriguez-Monguio. Assessing Differences in the Characteristics of the New Pharmaceuticals Approved by the FDA and EMA. American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219. Also presented at the: Interallied Confederation of Reserve Medical Officers Summer Congress. Fulda, Germany, Aug 4-8, 2014.
136. Stacey Springs, Enrique Seoane, Rosa Rodriguez-Monguio. Pediatric systemic antibiotic drug approvals in the US: Assessing the impact of BPCA and PREA. American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. APhA-APRS Postgraduate Best Paper Award in the Clinical Sciences - Honorable Mention. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219.
137. Nupur Greene, Fatema Turkistani, Enrique Seoane, Rosa Rodriguez-Monguio, Erin Fox, Sheryl Szeinbach. Shortages of Oncology Drugs in the United States. American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219.
138. Ahmad Alghamdi, Reem Almutairi, Doaa Felemban, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach. Orphan Drug Designations and Approvals by the United States Food and Drug Administration and the European Medicines Agency. American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. *Journal of the American Pharmacists Association* 2014; 54(2): e76-e219. Also presented at the: Interallied Confederation of Reserve Medical Officers Summer Congress. Fulda, Germany, Aug 4-8, 2014.

139. Kathryn Conti, Sokankelly Lim, Stella Shnayderman, Enrique Seoane, Timothy R. Hudd. Evaluating the impact of an interprofessional educational session led by PharmD students on nurses' perceived knowledge of inhaler devices for chronic obstructive pulmonary disease. New England Pharmacists Convention. Mashantucket, CT. Sep 20, 2013. Best poster in the category of Successful Integration of Pharmacy Students in a Practice Setting.
140. Snehal Bhatt, Enrique Seoane. Comparison of adherence to three times a day low dose unfractionated heparin for venous thromboembolism prophylaxis between surgical and medical ward patients. XXIV Congress of the International Society on Thrombosis and Haemostasis. Amsterdam, the Netherlands, Jun 29, 2013. *Journal of Thrombosis and Haemostasis* 2013; 11:1090-1091.
141. Aseel Bin Sawad, Ali Alshahrani, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Waxman-Hatch Act Pharmaceutical Patent Extensions (1984-2012). International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 22, 2013. *Value in Health* 2013;16(3):A245.
142. Nasser Alshehri, Enrique Seoane, Rosa Rodriguez-Monguio. A Comparison of New Drugs Approved by the EMA and the FDA in 2006-2011. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 22, 2013. *Value in Health* 2013;16(3):A246.
143. Pranav Abraham, Joanna Gholmie, Enrique Seoane, Rosa Rodriguez-Monguio. Pre-Marketing Authorization of New Medical Devices in the European Union and the United States. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 22, 2013. *Value in Health* 2013;16(3):A267.
144. Abdulrahman Alshehri, Bander Balkhi, Enrique Seoane, Sheryl L. Szeinbach. Analysis of 2011 Medicaid Fee-For-Service Outpatient Drug Utilization, Expenditures and Pharmacy Reimbursement Rates. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 21, 2013. *Value in Health* 2013;16(3):A198-A199.
145. Fatema Turkistani, Nupur Greene, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L. Szeinbach. Approvals and Market Discontinuations of Oncology Drugs in the United States (1980-2012). International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 21, 2013. *Value in Health* 2013;16(3):A151.
146. Reem Almutairi, Ahmad Alghamdi, Doaa Felemban, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach. Analysis of Orphan Drug Designations and Approvals in the United States and the European Union. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 20, 2013. *Value in Health* 2013;16(3):A124.
147. Soeun Kwon, Lita Araujo-Lama, Michael Montagne, Enrique Seoane. Assessment of the Mechanisms of Action of New Pharmaceuticals Approved by the FDA between 1980 and 2011. International Society for Pharmacoeconomics and Outcomes Research 18<sup>th</sup> Annual International Meeting. New Orleans, LA, May 22, 2013. *Value in Health* 2013;16(3): A249-A250.
148. Lita Araujo, Soeun Kwon, Michael Montagne, Enrique Seoane. Evaluation of the Mechanisms of Action of New Pharmaceuticals Approved in the U.S. between 1980 and 2012. American Association of Pharmaceutical Scientists Northeast Regional Discussion Group (AAPS-NERDG) Annual Meeting. Rocky Hill, CT. Apr 19, 2013.
149. Stacey Lindberg-Springs, Enrique Seoane, Rosa Rodriguez-Monguio, Mitchell Doucette Assessing Impact of BCPA and PREA on Pediatric Systemic Antibiotic Drug Approvals and Labeling Information in the US. AAPS-NERDG Annual Meeting. Rocky Hill, CT. Apr 19, 2013.
150. Nupur Greene, Fatema A. Turkistani, Enrique Seoane, Rosa Rodriguez-Monguio, Erin R. Fox, Sheryl L. Szeinbach. Oncology Drug Approvals and Shortages in the United States. AAPS-NERDG Annual Meeting. Rocky Hill, CT. Apr 19, 2013.
151. Ali Alshahrani, Aseel Bin Sawad, Enrique Seoane, Rosa Rodriguez-Monguio. Analysis of the Effect of Patent Extensions in the Effective Patent Life of New Pharmaceuticals Approved in the United States (1985-2012). AAPS-NERDG Annual Meeting. Rocky Hill, CT. Apr 19, 2013.

152. Doaa Felemban, Ahmad Alghamdi, Reem Almutairi, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl L. Szeinbach. A Comparison of Orphan Drugs Approvals and Designations in the United States and the European Union in 2000-2011. AAPS-NERDG Annual Meeting. Rocky Hill, CT. Apr 19, 2013.
153. Bander Balkhi, Lita Araujo-Lama, Diane Nguyen, Paul Le, Enrique Seoane, Rosa Rodriguez Monguio, Erin Fox, Sheryl Szeinbach. Shortages of Systemic Antibiotics in the United States: A Public Health Concern. International Society for Pharmacoeconomics and Outcomes Research 17<sup>th</sup> Annual International Meeting. Washington, DC, Jun 4, 2012. *Value in Health* 2012;15(4):A15.
154. Sheryl Szeinbach, Enrique Seoane, Kent Summers. Developing an Instrument to Assess Product Preference for Testosterone Replacement Therapy. International Society for Pharmacoeconomics and Outcomes Research 17<sup>th</sup> Annual International Meeting. Washington, DC, Jun 5, 2012. *Value in Health* 2012;15(4):A200.
155. Ketaki Bendre, Josephine Babiarz, Enrique Seoane. Intellectual Property Strategies Used by the Innovator Pharmaceutical Industry to Extend the Life Cycle of Drugs. Professional poster presentation. Drug Information Association 2011 Annual Meeting. Chicago, Jun 22, 2011.
156. Enrique Seoane, Rosa Rodriguez-Monguio, Zaina Qureshi, Sheryl Szeinbach. A Trend Analysis of New Molecular Entities Withdrawn for Safety Reasons from 1980 to 2009 in the United States. International Society for Pharmacoeconomics and Outcomes Research 16<sup>th</sup> Annual International Meeting. Baltimore, May 23, 2011. *Value in Health* 2011;14(3):A29.
157. Zaina Qureshi, Sheryl Szeinbach, Enrique Seoane, Kurt Stevenson. A Trend Analysis of Discontinued New Molecular Entities in the US. International Society for Pharmacoeconomics and Outcomes Research, 15<sup>th</sup> Annual International Meeting. Atlanta, May 18, 2010. *Value in Health* 2010;13(3):A85.
158. Noreen Sullivan, Sheryl Szeinbach, Enrique Seoane, Karl Matuszewski, Kevin Mayo, Stefan Holmstrom, Geoffrey Wilson, Annie Chicoye. ISPOR Health Technology Assessment Interest Group. Developing Global Road Maps for Reimbursement Processes Used in Health Technology Assessment: Pharmaceuticals, Medical Devices, and Diagnostics. International Society for Pharmacoeconomics and Outcomes Research, 15<sup>th</sup> Annual International Meeting. Atlanta, May 18, 2010. *Value in Health* 2010;13(3):A97.
159. Andrew P. Beyer, Sheryl L. Szeinbach, Enrique Seoane, Joe A. Gliem, Justin Doan, Greg Vander Wal, Kenneth Lichstein. Using the ITSAT-Q to Evaluate Patients with and without Anxiety or Depression: A Multi-group Analysis. SLEEP 2009 23<sup>rd</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC. Seattle, Washington, Jun 9, 2009. *Sleep* 2009; 32 Supplement:A259-A259.
160. Sheryl L. Szeinbach, Andrew P. Beyer, Zaina Qureshi, Adam Uhas, Jay Visaria, Enrique Seoane. Use of Conjoint Analysis in Health Outcomes Research: An Examination of the Literature. International Society for Pharmacoeconomics and Outcomes Research, 14<sup>th</sup> Annual International Meeting. Tampa, Florida. May 18, 2009. *Value in Health* 2009; 12(3):A34-A34.
161. Zaina Qureshi, Sheryl Szeinbach, Enrique Seoane, Rosa Rodriguez-Monguio. Market Discontinuation of Pharmaceuticals in the United States: Analysis of Drugs Approved by the FDA from 1939 to 2008. International Society for Pharmacoeconomics and Outcomes Research, 14<sup>th</sup> Annual International Meeting. Tampa, Florida. May 19, 2009. *Value in Health* 2009;12(3):A81-A82.
162. Jay Visaria, Enrique Seoane, Rosa Rodriguez-Monguio, Judith Schwartzbaum, Sheryl Szeinbach. Evaluating Differences in Drug Reimbursement between Mail-Order and Community Pharmacy. International Society for Pharmacoeconomics and Outcomes Research, 14<sup>th</sup> Annual International Meeting. Tampa, Florida. May 19, 2009. *Value in Health* 2009;12(3):A88-A88.
163. Noreen Sullivan, Sheryl Szeinbach, Enrique Seoane, A. Chhabra, C. Faulkner, AP. Holtorf, D. Polygenis, M. Rebeira, JM. Rodriguez, K. Matuszewski. Identifying Key Decision Pathways in Health Technology Assessment around the World. International Society for Pharmacoeconomics and Outcomes Research, 14<sup>th</sup> Annual International Meeting. Tampa, Florida. May 19, 2009. *Value in Health* 2009;12(3):A95-A95.
164. Jay Visaria, Enrique Seoane, Judith Schwartzbaum, Sheryl L. Szeinbach. Is There an Acceptable Level of Medication Adherence? A Review of Retrospective Adherence Evaluation Studies. International Society for Pharmacoeconomics and Outcomes Research, 13<sup>th</sup> Annual International Meeting. Toronto, Canada. May 5, 2008. *Value in Health* 2008;11(3):A29.

165. Andrew P. Beyer, Jay Visaria, Enrique Seoane, Sheryl L. Szeinbach. Evaluating the Use of Provisional Patents by the Pharmaceutical Industry: The Experience of the United States. International Society for Pharmacoeconomics and Outcomes Research, 13<sup>th</sup> Annual International Meeting. Toronto, Canada. May 5, 2008. *Value in Health* 2008;11(3):A33.
166. Amanda Hafford, Niesha Griffith, Enrique Seoane, Sheryl L. Szeinbach. Impact of a Pharmacist-Directed Anemia Management Program on Guideline Adherence, 42<sup>nd</sup> ASHP Midyear Clinical Meeting. Las Vegas, Nevada. Dec 2, 2007.
167. Ashish Parekh, Sheryl L. Szeinbach, Enrique Seoane. Medication Safety in Community Pharmacy: Impact of Sociotechnical Factors on Dispensing Errors. International Society for Pharmacoeconomics and Outcomes Research, 12<sup>th</sup> Annual International Meeting. Arlington, Virginia. May 21, 2007. *Value in Health* 2007;10(3):A22.
168. Enrique Seoane, Rosa Rodriguez-Monguio, Jay Visaria. The Impact of Mail Order Pharmacy in Drug Utilization and Reimbursement in a Large Retirement System. International Society for Pharmacoeconomics and Outcomes Research, 12<sup>th</sup> Annual International Meeting. Arlington, Virginia. May 21, 2007. *Value in Health* 2007;10(3):A24.
169. Andrew P. Beyer, Sheryl L. Szeinbach, Enrique Seoane, P. Brock Williams. Impact of Allergic Rhinitis on Work Productivity. International Society for Pharmacoeconomics and Outcomes Research, 12<sup>th</sup> Annual International Meeting. Arlington, Virginia. May 22, 2007. *Value in Health* 2007;10(3):A116.
170. Enrique Seoane, Rosa Rodriguez-Monguio, Satish Valluri, Sheryl L. Szeinbach. Modeling the Impact on Drug Cost and Utilization of the Implementation of Mail Order Pharmacy in a Dual-Eligible Population. Accepted. AcademyHealth, 2006 Annual Research Meeting. Seattle, Washington. Jun 25, 2006.
171. Enrique Seoane, Rosa Rodriguez-Monguio. International and U.S. Experiences of Health Technology Assessment of Pharmaceuticals: Implications for the U.S. Health Care Sector. Accepted. AcademyHealth, 2006 Annual Research Meeting. Seattle, Washington. Jun 25, 2006.
172. Enrique Seoane, Rosa Rodriguez-Monguio, Jay Visaria. Economic Burden of Endoscopy-Related Infections, Pseudo-Infections and Toxic Reactions. May 22, 2006. International Society for Pharmacoeconomics and Outcomes Research, 11<sup>th</sup> Annual International Meeting. Philadelphia, Pennsylvania. May 22, 2006. *Value in Health* 2006; 9(3):A46.
173. Enrique Seoane, Joe E. Crea. Drug Use in Pregnancy and the Availability of Drug Information. Accepted. American Pharmacists Association 2006 Annual Meeting & Exposition. San Francisco, California. Mar 18, 2006. Accepted. *Journal of the American Pharmacists Association* 2006;46(2):219.
174. Joe E. Crea, Enrique Seoane, Sheryl L. Szeinbach. The Correlation of Satisfaction of Medicare Beneficiaries with Access and Quality of Care. International Society for Pharmacoeconomics and Outcomes Research, 11<sup>th</sup> Annual International Meeting. Philadelphia. May 23, 2006. Accepted. *Value in Health* 2006; 9(3):A148-9.
175. Jaclyn M. LeBlanc, Joseph F. Dasta, Enrique Seoane. International Survey of Hospital Pharmacists. American Society of Health-System Pharmacists, 40<sup>th</sup> Midyear Meeting. Las Vegas, Dec 6, 2005. *Abstract Book* 2005; 40:326D.
176. Jaclyn M. LeBlanc, Joseph F. Dasta, Enrique Seoane. International Survey of Critical Care Pharmacists. American College of Clinical Pharmacy. Oct 24, 2005. *Pharmacotherapy* 2005; 25(10):1496.
177. Enrique Seoane, Rosa Rodriguez-Monguio, Joe E. Crea. Reforming the Ohio Medicaid Pharmaceutical Program. AcademyHealth, State Health Research and Policy Interest Group Meeting. Boston, Massachusetts. Jun 25, 2005.
178. Enrique Seoane, Jay Visaria, Ashish Parekh. Reconsidering the Perspective in the Economic Evaluation. 10<sup>th</sup> Annual International Meeting. International Society for Pharmacoeconomics and Outcomes Research. Washington DC. May 16, 2005. *Value in Health* 2005;8(3):383.
179. Satish Valluri, Rosa Rodriguez-Monguio, Enrique Seoane. Modeling the Cost and Utilization of Mail Order vs. Community Pharmacy in a Medicaid Population. 10<sup>th</sup> International Meeting. International Society for Pharmacoeconomics and Outcomes Research. Washington DC. May 17, 2005. *Value in Health* 2005;8(3):287-8.

## INVITED PRESENTATIONS

1. Enrique Seoane. Effects of biosimilars on US biologic prices. Roundtable. World Biosimilar Congress 2020. San Diego, CA, Mar 2, 2020.
2. Enrique Seoane. Panel discussion: Commercializing biosimilars and the associated challenges. World Biosimilar Congress 2020. San Diego, CA, Mar 3, 2020.
3. Enrique Seoane. The Spread of Resistant Superbugs: The End of the Antibiotics Era? Faculty Master Classes. The Chapman Family Homecoming Celebration. Chapman University, Orange, Oct 13, 2018.
4. Enrique Seoane. Keynote Stakeholder Panel. Providing balanced and consistent information to patients and providers. World Biosimilar Congress, 2018. San Diego, May 24, 2018.
5. Enrique Seoane. Drug Shortages Breakout Session Co-chair. World Patient Safety, Science & Technology Summit - Summit 2018. Patient Safety Movement. London, Feb 25, 2018.
6. Enrique Seoane. Drug Prices in the US: Trends, Driving Factors and Implications. Division of Health Policy and Insurance Research, Harvard Medical School and Harvard Pilgrim Health Care Institute, Drug Policy Research Group Seminar. Boston. Apr 26, 2017.
7. Enrique Seoane. Rising Drug Prices and Prospects for Reform. Massachusetts Bar Health Law Symposium. Boston. Apr 7, 2017.
8. Richard Hansen, Jingjing Qian, Peggy L. Peissig, Richard Berg, Enrique Seoane, Michael Caldwell, James Linneman, Motiur Rahman, Ning Cheng, Yasser Alatawi, David Page. Post-market Authorized Generic Evaluation (PAGE). U01FD005272-02. FDA Meeting. Food and Drug Administration, Silver Spring, MD, Jun 9, 2016.
9. Enrique Seoane. Profit Maximization, Market Failures and the Failure of Regulation in the Pharmaceutical Market. Industrial Organization All Stars Lecture. Boston College, Economics Department. Boston. Mar 16, 2015.
10. Enrique Seoane. Market Failures and Pharmaceutical Shortages in the US. Drug Shortage Summit. Washington, DC. Apr 18, 2013.
11. Enrique Seoane. Pharmaceutical Shortages in the US: Trends, Causes and Potential Solutions. University of South Florida, College of Pharmacy and College of Public Health. Tampa, May 16, 2012.
12. Enrique Seoane. Market Failures and Pharmaceutical Shortages in the US. Harvard Medical School and Harvard Pilgrim Health Care Institute, Drug Policy Research Group Seminar. Boston. May 9, 2012.
13. Enrique Seoane. The Economics of “Niche” Product Pricing; the Challenge of Pricing Drugs Used Specifically in the NICU. Opportunities and Challenges in Developing Drug Formulations for Neonatal Intensive Care. Conference Organized by the Institute for Pediatric Innovation. Washington DC, Dec 7, 2011.
14. Enrique Seoane. Drug Resistance and Antibiotic R&D: The Search for the Next Miracle Drug MCPHS Research Day. Key speaker. Boston. Oct 12, 2010.
15. Enrique Seoane. Public Health Legal Implications of Antimicrobial Resistance. Using Law, Policy and Research to Improve the Public's Health: A National Conference. American Society of Law, Medicine & Ethics; Public Health Law Association. Atlanta. Sep 14, 2010.
16. Enrique Seoane, Rosa Rodriguez-Monguio. Price Regulation in the U.S. First Pan-American Seminar on Economic Regulation of Pharmaceuticals. Brazilian FDA (ANVISA) and Pan American Health Organization / World Health Organization. Brasilia, Brazil. Mar 19, 2009.
17. Enrique Seoane, Jay Visaria. Pharmaceutical Prices in the U.S. Workshop prepared for the Director of the Brazilian FDA (ANVISA) Economic Evaluation Program. Columbus, Ohio. Mar 11-12, 2008.
18. Binita Patel-Naik, Sheryl L. Szeinbach, Enrique Seoane, Margueritte Hevezi, Melissa Snider. Pharmacist Interventions in an Anticoagulation Management Clinic: Impact on Patient Outcomes. Great Lakes Pharmacy Resident Conference, 2008.
19. Amanda Hafford, Enrique Seoane, Niesha Griffith, Sam Penza. A Retrospective Evaluation of a Pharmacist-Directed Anemia Management Program. Great Lakes Pharmacy Resident Conference, 2007.

20. Tara L. Hanuscak, Sheryl L. Szeinbach, Enrique Seoane, Brendan J. Reichert, Charles F. McCluskey. Information Technology: Impact of Downtime and Recovery Time on Patient Care Outcomes. Great Lakes Pharmacy Resident Conference, 2007.
21. Katharine A. Sheldon, Crystal R. Tubbs, Enrique Seoane, Sheryl L. Szeinbach, Kari L. Mount, Tiffani S. Rose, Louise Griffiths. Implementation of Insulin Pens in an Academic Medical Center. Great Lakes Pharmacy Resident Conference, 2007.
22. Enrique Seoane. Mail vs. Community Pharmacy: The Checks in the Mail. Results of an OPERS Analysis. Employers Health Purchasing Corporation of Ohio. 8<sup>th</sup> Annual Employer Symposium. Canton, Ohio. May 2, 2007.
23. Enrique Seoane. Average Manufacturer Price: Impact on Community Pharmacy. Ohio Pharmacists Association, 129<sup>th</sup> Annual Conference. Columbus. Apr 21, 2007.
24. Enrique Seoane. PBMs, PBAs, and Rx Coalitions: The Payers' Perspective. Ohio Public Employers' Pharmacy Group. Columbus, Ohio. Jun 22, 2006.
25. Janinah S. Barreto-Hernández, Niesha Griffith, Enrique Seoane. Medication Reconciliation Initiative. Great Lakes Pharmacy Resident Conference, 2006.
26. Carmen C. Inquilla, Sheryl L. Szeinbach, Enrique Seoane, Deena Chisolm, Karl Kappeler. Analysis of Computerized Prescriber Order Entry Systems in the Pediatric Setting: The Pharmacy Perspective. Great Lakes Pharmacy Resident Conference, 2006.
27. Enrique Seoane. Ethics and Pharmaceuticals: From R&D to Marketing. OSU Chapter of Alpha Epsilon Delta. Columbus, Ohio. Jan 18, 2006.
28. Quovadis J. McKenzie, Philip J. Schneider, Craig A. Pedersen, Enrique Seoane, Karl H. Kappeler. Clinical, Operational, and Financial Evaluation of an IV Robotic Technology. Great Lakes Pharmacy Resident Conference, 2005.
29. Enrique Seoane. Economic Evaluation Approaches. Ohio Program Evaluators' Group. 2005 Fall Workshop. Columbus, Ohio. Dec 1, 2005.
30. Enrique Seoane. Ohio Medicaid Pharmaceutical Program: Alternatives for Reform. Medical Care Advisory Committee. Columbus, Ohio. Mar 16, 2005.
31. Enrique Seoane. Ohio Medicaid Pharmaceutical Program: Alternatives for Reform. University of Massachusetts, Medical School. Worcester, Massachusetts. Mar 7, 2005.
32. Enrique Seoane. Counterfeit Drugs. Workshop prepared for the Director of the Peruvian FDA (DIGEMID). Columbus, Ohio. Mar 2-3, 2005.
33. Enrique Seoane. Ohio Medicaid Pharmaceutical Program: Analysis of the Program. Medical Care Advisory Committee Meeting. Columbus, Ohio. Nov 17, 2004.
34. Enrique Seoane. Trends in Ohio Medicaid Fee-For-Service Pharmaceutical Expenditures & Utilization. Ohio Commission to Reform Medicaid. Columbus, Ohio. Jul 1, 2004.
35. Enrique Seoane. What is Happening with the Average Wholesaler Price (AWP)? Ohio Pharmacist Association, 126<sup>th</sup> Annual Conference. Columbus, Ohio. Apr 16, 2004.
36. Juan Rovira, Enrique Seoane. Generic Policies and Access to Drugs in Developing Countries. Intellectual Property and International Public Health, Georgetown University, Washington, DC. Oct 6, 2003.
37. Enrique Seoane. The U.S. Health Care System: Public and Private Insurance. Pan American Health Organization – World Health Organization. Consejo Nacional de Salud del Ecuador. Quito, Ecuador. Aug 21, 2003.
38. Enrique Seoane. Drug Access: Role of Generic Drugs. Pan American Health Organization – World Health Organization. Consejo Nacional de Salud del Ecuador. Quito, Ecuador. Aug 22, 2003.
39. Enrique Seoane. Increasing Drug Access for the Poor Using Generic Drugs: Policy and Regulation. Meeting on the Role of Generics and Local Industry in Attaining the MDGs in Pharmaceuticals and Vaccines. The World Bank. Washington DC, Jun 24, 2003.
40. Enrique Seoane. Pharmacist Role in Medicaid Case Management. Ohio Health Plans, Ohio Department of Job and Family Services. Columbus, Ohio. Mar 7, 2003.

41. Enrique Seoane. Framework for the Analysis of the Pharmaceutical Sector. Pan American Health Organization – World Health Organization. Washington, DC. Feb 28, 2003.
42. Enrique Seoane. Generic Drugs. Madrid Health Service. Madrid, Spain. Jan 8, 2003.
43. Enrique Seoane. Drug Access: Role of Generic Drugs. First Argentina-Brazil Conference on Generic Drugs. Spanish. Argentinean Ministry of Health. Buenos Aires, Argentina. Dec 4, 2002.
44. Enrique Seoane. Pricing Pharmaceuticals in a World Market. 2002 Annual Meeting. American Association of Pharmaceutical Scientists. Toronto, Canada. Nov 12, 2002.
45. Enrique Seoane. Systems and Alternatives for Health Care Insurance and Financing: The Experience of Spain. Spanish. Chilean Health Care Department and Pan American Health Organization. Santiago, Chile. Nov 4, 2002.
46. Enrique Seoane. Utilization of the Economic Evaluation by the U.S. HMOs. Instituto Nacional de Salud Pública. Cuernavaca, Mexico. Sep 27, 2002.
47. Enrique Seoane. Pharmacoeconomics and Ethics. Spanish. Sociedad Aragonesa de Farmacia Comunitaria. Internet presentation. Sep 23, 2002.
48. Enrique Seoane. Access to Medicines: An International Perspective. Global Health Forum 2002. University of Minnesota, Minneapolis, Minnesota. Mar 9, 2002.
49. Enrique Seoane. Economic Integration and Patent System: Effects on the Spanish Pharmaceutical Industry. Spanish. ASILFA. Santiago, Chile. Nov 21, 2001.
50. Enrique Seoane. Medicare Prescription Drug Coverage: A Policy Analysis. Ohio State College of Pharmacy. Columbus, Ohio. Oct 8, 2001.
51. Enrique Seoane. Medicare Rx Benefit. W. Virginia College of Pharmacy. Morgantown, West Virginia. Sep 28, 2001.
52. Enrique Seoane. Medicare Prescription Drug Coverage. Minnesota Medicare Congressional Summit. Minnesota Senior Federation. Minneapolis, Minnesota. Aug 6, 2001.
53. Enrique Seoane. The U.S. Generic Market. 1<sup>st</sup> International Meeting on Generic Drugs. Portuguese. Brazilian Association of Pharmaceutical Manufacturers. São Paulo, Brazil. Aug 7, 2000.
54. Enrique Seoane. Access to Drugs: An International Perspective. Spanish. XVI Forum Lationamericano de Industrias Farmacéuticas. Latin-American Association of Pharmaceutical Manufacturers. San Salvador, El Salvador. May 11, 2000.
55. Enrique Seoane. Economics of Pharmaceutical Care. First International Meeting on Pharmaceutical Care. Madrid Pharmacists Association. Madrid, Spain. Mar 24, 2000.
56. Enrique Seoane. Pharmacoeconomics. Spanish. College of Pharmacy, University Central of Venezuela. Caracas, Venezuela. Oct 28, 1999.
57. Enrique Seoane. Pharmacoeconomics and Neurology. Spanish. Internet presentation. First Ibero-American Virtual Neurology Congress. Burgos, Spain. Oct 15-Nov 30, 1998.
58. Enrique Seoane. Drug Quality Assurance. Spanish. International Meeting on Interchangeable Generic Drugs. Consejo de Salubridad General and Universidad Nacional Autónoma de Méjico. Mexico City, Mexico. Oct 29, 1998.
59. Enrique Seoane. Pharmacy in USA. University of Minnesota, College of Pharmacy. Presentation for Spanish Pharmacist. Minneapolis, Minnesota. Jul 25, 1998.
60. Enrique Seoane. Economics of Pharmaceutical R&D. Spanish. Internet presentation. Virtual Course of Methodology in Clinical Trials. Boots Health Care and Research Unit Hospital de Burgos. Burgos, Spain. Jul 17, 1998.
61. Enrique Seoane. The 1998 National Health Care Symposium. Invited participant. Co-sponsored by The Leonard Center Davis Institute of Health Economics, Center for Health Policy, University of Pennsylvania, and the State Legislative Foundation. Philadelphia, Pennsylvania. Jan 30, 1998.
62. Enrique Seoane. Pharmaceuticals and the Patent System Workshop. Spanish. COCEMI. Ronda de Negocios. Montevideo, Uruguay. Nov 29, 1997.

63. Enrique Seoane. Free Trade Area of the Americas. III Americas Business Forum, Workshop on Technology and Intellectual Property. Invited participant. Belo Horizonte, Brazil, May 13-15, 1997.
64. Stephen W. Schondelmeyer, Enrique Seoane. Mechanisms to Increase the Consumption of Generic Drugs in Venezuela. Spanish. Private presentation to the President of the Republic of Venezuela, Dr. Rafael Caldera. Caracas, Venezuela. Feb 3, 1997.
65. Enrique Seoane. Generic Pharmaceuticals in Venezuela: Issues and Directions. Presentation to the Venezuelan Secretary of Health and Social Assistance Dr. Pedro Rincón Gutierrez. Caracas, Venezuela. Feb 3, 1997.
66. Enrique Seoane. International pharmaceutical market: Evolution and Trends. Spanish. EADA Business School. Barcelona, Spain. Nov 12, 1996.
67. Enrique Seoane. The Situation of the Spanish and the Galician Hospital Pharmacy. Spanish. Spanish Hospital Pharmacy Society. Santiago de Compostela, Spain. May 31, 1996.
68. Enrique Seoane. The Situation of the Spanish Hospital Pharmacy. Spanish. Spanish Hospital Pharmacy Society. Presentation to the Spanish Ministry of Health. Madrid, Spain. Jun 3, 1996.
69. Enrique Seoane. Spanish Health Care System towards the XXI Century. ISP International Meeting. ISP, Department of Public Health, University of Minnesota. Minneapolis, Minnesota. Jul 8, 1996.
70. Enrique Seoane. Psychiatric Legislation. Spanish. Galician Health Service. Rebullon, Spain. Oct 20, 1992.
71. Enrique Seoane. Psychiatric Legislation. Spanish. Hospital of Conxo. Santiago, Spain. May 20, 1993.
72. Enrique Seoane. Social, Political, and Economic Aspects of the Practice of Medicine. Spanish. Galician Group for Investigation of Bioethics. Santiago, Spain. Nov 14, 1992.

#### **NON-PEER REVIEWED POSTERS**

1. Sofiya Sovalska, Philip Grgurich, Khaled Elsaid, Enrique Seoane. Impact of Matrix-Assisted Laser Desorption/Ionization Time-of-Flight (MALDI-TOF) Rapid Organism Identification Technology on Time to Antibiotic De-escalation in Gram-negative Pneumonia. American Society of Health-Systems Pharmacy, 50<sup>th</sup> Midyear Clinical Meeting and Exposition. Student Poster Session. Las Vegas, NV. Dec 7, 2016.
2. Jordan Lacoste. May Adra, Enrique Seoane, Snehal H. Bhatt. Evaluation of antithrombotic management in patients with atrial fibrillation at a tertiary care academic medical center. American Society of Health-Systems Pharmacy, 50<sup>th</sup> Midyear Clinical Meeting and Exposition. Student Poster Session. Las Vegas, NV. Dec 7, 2016.
3. Christopher Talbot, Theodore Stachulski, Enrique Seoane, Dorothea Rudolf. Therapeutic interventions – A Comprehensive Analysis of Pharmacy Student Contributions at an Inpatient Teaching Facility. American Society of Health-Systems Pharmacy, 50<sup>th</sup> Midyear Clinical Meeting and Exposition. Student Poster Session. New Orleans, LA. Dec 8, 2015.
4. Aaron Nathan, Betty Liu, Alejandra Salazar, Enrique Seoane, Rosa Rodriguez-Monguio, Mary Amato, Tewodros Eguale, Pamela Neri, Adam Wright, Lynn Volk, Gordon Schiff. Indications-Based Prescribing to Enhance Medication CPOE Safety & Quality. DGIM Research Day. Brigham and Women's Primary Care Practice-Based Research Network and the Division of General Internal Medicine and Primary Care. May 1, 2015,
5. Snehal Mahida, Enrique Seoane, Elissa V. Klinger, Alejandra Salazar, Quoa L. Her, Jeffrey Medoff, Mary Amato, Patricia C. Dykes, Jennifer S. Haas, David W. Bates, Gordon D. Schiff. Cost of Reporting Possible Adverse Drug Reactions in Medical Outpatients Using a Telephonic Interactive Voice Response System. DGIM Research Day. Brigham and Women's Primary Care Practice-Based Research Network and the Division of General Internal Medicine and Primary Care. May 1, 2015.
6. Diane Nguyen, Bander Balkhi, Lita Araujo-Lama, Paul Le, Enrique Seoane. The Prevalence of Pharmaceutical Shortages of Systemic Antibacterials in the US. American Society Health-System Pharmacists, 46<sup>th</sup> Midyear Meeting. Student Poster Session. New Orleans, LA. Dec 5, 2011.
7. Kevin Outtersson, Rosa Rodriguez-Monguio, Enrique Seoane, John Powers. Public Health Implications of Antimicrobial Drug Regulation in the U.S. 2<sup>nd</sup> Annual Robert Wood Johnson Foundation - Public Health Law Research Grantee Meeting. Tempe, AZ. Jan 19, 2011.



8. Janinah S. Barreto-Hernández, Niesha Griffith, Enrique Seoane. Medication Reconciliation Failure Modes and Effects Analysis. American Society Health-System Pharmacists, 40<sup>th</sup> Midyear Meeting. Resident Poster Session. Las Vegas, Dec 7, 2005.
9. Carmen Inquilla, Sheryl L. Szeinbach, Enrique Seoane, Deena Chisolm, Karl Kappeler. Analysis of Computerized Prescriber Order Entry Systems in the Pediatric Setting: The Pharmacy Perspective. American Society of Health-System Pharmacists, 40<sup>th</sup> Midyear Meeting. Resident Poster Session. Las Vegas, Dec 7, 2005.
10. Quovadis J. McKenzie, Karl H. Kappeler, Phillip J. Schneider, Craig A. Pedersen, Enrique Seoane, Andrew E. Cameron. Clinical, Operational, and Financial Evaluation of an IV Robotic Technology. American Society of Health-System Pharmacists, 39<sup>th</sup> Midyear Meeting. Resident Poster Session. Dec 8, 2004.

#### **WEBINARS**

1. Gordon Schiff, Adams Wright, Enrique Seoane. Panel 1: Delineating and Defining the Construct of Indications-based Prescribing. Improving HIT Prescribing Safety by Incorporating Indications into Computerized Prescriber Order Entry. May 12, 2015. Available at: <https://sites.google.com/site/indicationsrx/home/panel-1>.
2. Joel Lexchin, Enrique Seoane, Gordon Schiff. Panel 5: Drugs of Choice. Improving HIT Prescribing Safety by Incorporating Indications into Computerized Prescriber Order Entry. Sep 15, 2015. Available at: <https://sites.google.com/site/indicationsrx/home/panel-4>.

#### **AWARDS AND HONORS**

##### **RESEARCH AWARDS**

1. Rawan H. Alhaqbani, Anhar M. Al-Yousef, Mona Alsheikh, Enrique Seoane, Reem Almutairi. Trends in the Approval of Therapeutic Biologics by US-FDA in the Period 2000-2018. Dubai International Pharmaceutical & Technology Conference & Exhibition. Dubai, United Arab Emirates. Feb 26, 2019. Second Best Pharmacy Student Innovative Poster Award.
2. Gordon Schiff, Mary Amato, Tewodros Eguale, Kate Forsythe, Sam Karmiy, Sarah K. McCord, Rosa-Rodriguez-Monguio, Aaron Nathan, Pamela Neri, Isabella Newbury, Alejandra Salazar, Enrique Seoane, Lynn Volk, Adam Wright. Indications Based Prescribing Team. 2018 Partners in Excellence Award, Boston, MA, Feb 8, 2018.
3. Ali Alshahrani Enrique Seoane, Rosa Rodriguez-Monguio, Lita Araujo Lama, Tewodros Eguale. A Comparison of Antiretroviral Drugs Approved in the US and Europe in the period 1987-2015. Research Presentation Award Finalist. International Society for Pharmacoeconomics and Outcomes Research 20<sup>th</sup> Annual European Meeting. Glasgow, Scotland, Nov 8, 2017.
4. Adnan Alsumali, Tewodros Eguale, S Bairdain, Brian Rittenhouse, Enrique Seoane, M Samnaliev. Cost-Effectiveness of Bariatric Surgery for Morbid Obesity in USA. Research Presentation Award Finalist. International Society for Pharmacoeconomics and Outcomes Research 22<sup>nd</sup> Annual International Meeting, Boston, MA, May 22, 2017.
5. Turkistani F, Seoane E, Rodriguez-Monguio R, Bin Sawad A. Approvals and Discontinuations of New Molecular Entities and Therapeutic Biologic License Applications in the United States (1986-2015). Research Presentation Award Finalist. International Society for Pharmacoeconomics and Outcomes Research 22<sup>nd</sup> Annual International Meeting, Boston, MA, May 22, 2017.
6. MS Alasmari, Enrique Seoane, Rosa Rodriguez-Monguio, Tewodros Eguale, Sheryl Szeinbach. A comparison of cardiovascular drugs approved by the U.S. Food and Drug Administration and Health Canada (1980-2014). International Society for Pharmacoeconomics and Outcomes Research 21<sup>st</sup> Annual International Meeting, Washington, DC, May 23, 2016. Best Research Poster Award Finalist.
7. A Kaabi, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach, Tewodros Eguale. A comparison of antidepressant drugs approved by the U.S. Food and Drug Administration and Health Canada (1959-2015). International Society for Pharmacoeconomics and Outcomes Research 21<sup>st</sup> Annual International Meeting, Washington, DC, May 24, 2016. Best Research Poster Award Finalist.

8. Saad Alqahtani, Rosa Rodriguez-Monguio, Enrique Seoane, Tewodros Eguale, MJ Zeukeng, Sheryl Szeinbach. Tracking the sponsoring country of incorporation for new drugs approved by the US FDA in the period 1980-2014: A trend analysis. International Society for Pharmacoeconomics and Outcomes Research, 20<sup>th</sup> Annual International Meeting Philadelphia. PA. May 16-20, 2015. Best Research Poster Award Finalist.
9. Stacey Lindberg-Springs, Shruti Nambiar, Enrique Seoane. Impact of pediatric regulation on availability of neonate drug information. MCPHS School of Pharmacy Graduate Student Research Day. Boston, MA, Mar 27, 2015. Best Poster Award.
10. Sandra Aziz, Emilie Maloy, Timothy O'Shea, Enrique Seoane, Timothy Hudd. Collaborating with community-based groups to promote self-awareness, innovation, and professionalism among PY3 PharmD students. 10<sup>th</sup> Annual New England Pharmacists Convention. Ledyard, CT. Oct 23-24, 2014. Best Poster in the Pharmacy Student Integration Category.
11. Bander Balkhi, Abdulrahman Alshehri, Sheryl Szeinbach, Enrique Seoane. Trends in Medicaid Fee-For-Service Outpatient Drug Utilization, Expenditures and Pharmacy Reimbursement Rates (2010-2012). International Society for Pharmacoeconomics and Outcomes Research, 19<sup>th</sup> Annual International Meeting. Montreal, Canada, Jun 2, 2014. Best Student Poster Research Presentation Award.
12. Marie Dacey, William McCloskey, Caroline Zeind, Magdalena Luca, Lisa Woolsey, Carol Eliadi, Enrique Seoane, Rebecca Couris. Development of a Questionnaire to Assess Health Profession Student Knowledge of Older Adults. MCPHS University, May 2014. 2014. Faculty Scholarship Award in the Category of Teaching.
13. Kathryn Conti, Sokankelly Lim, Stella Shnayderman, Enrique Seoane, Timothy R. Hudd. Evaluating the impact of an interprofessional educational session led by PharmD students on nurses' perceived knowledge of inhaler devices for chronic obstructive pulmonary disease 2014 MCPHS University, May 2014. Faculty Scholarship Showcase Award in the Category of Integration.
14. Stacey Springs, Enrique Seoane, Rosa Rodriguez-Monguio. Pediatric systemic antibiotic drug approvals in the US: Assessing the impact of BPCA and PREA. American Pharmacists Association (APhA) Annual Meeting & Exposition. Orlando, FL, Mar 28-31, 2014. APhA-APRS Postgraduate Best Paper Award in the Clinical Sciences - Honorable Mention.
15. Kathryn Conti, Sokankelly Lim, Stella Shnayderman, Enrique Seoane, Timothy R. Hudd. Evaluating the impact of an interprofessional educational session led by PharmD students on nurses' perceived knowledge of inhaler devices for chronic obstructive pulmonary disease, New England Pharmacists Convention. Mashantucket, CT. Sep 20, 2013. Best poster in the category Successful Integration of Pharmacy Students in a Practice Setting.
16. Bander Balkhi, Lita Araujo-Lama, Enrique Seoane, Rosa Rodriguez-Monguio, Sheryl Szeinbach, Erin Fox. Shortages of Systemic Antibiotics in the United States: How Long Can We Wait?" Massachusetts College of Pharmacy & Health Sciences University, May 2013. 2013 Faculty Scholarship Showcase Award in the Category of Application. MCPHS University.
17. Jing Hao, Rosa Rodriguez-Monguio, Enrique Seoane. Public Health Implications and Economics of Combination Drugs: A Review of the Literature on Fluticasone propionate/salmeterol. American Public Health Association Medical Care Section Student Presentation Award 2012.

#### **TEACHER AWARDS**

- 2021 Graduate Teacher of the Year. Graduate Program in Pharmaceutical Sciences, Chapman University School of Pharmacy, Irvine, CA.

#### **REVIEWER AWARDS**

- Top Review 2020. Research in Social and Administrative Pharmacy. Dec 13, 2020.
- Best Reviewer 2018. Pharmacoepidemiology and Drug Safety. Aug 12, 2019.
- Best Reviewer 2017. Pharmacoepidemiology and Drug Safety. Aug 23, 2018.
- Best Reviewer 2016. Pharmacoepidemiology and Drug Safety. Jul 25, 2017.
- Best Reviewer 2015. Pharmacoepidemiology and Drug Safety. Aug 8, 2016.

#### **STUDENT ORGANIZATIONS AWARDS**

- MPCHS International Society for Pharmacoeconomics and Outcomes Research (ISPOR) Student Chapter. Enrique Seoane and Brian Rittenhouse, Chapter Advisors.
  - 2<sup>nd</sup> Place in the ISPOR Student Research Competition. 19<sup>th</sup> Annual International Meeting of ISPOR, May 31- Jun 4, 2014, Montreal, QC, Canada.
- Academy of Managed Care Pharmacy (AMCP), Ohio State University, College of Pharmacy Student Chapter. Enrique Seoane, Chapter Advisor:
  - Second Place in the AMPC 8<sup>th</sup> Annual National Pharmacy & Therapeutics Committee Competition. San Francisco, Apr 18, 2008.
  - Second Place in the AMPC 7<sup>th</sup> Annual National Pharmacy & Therapeutics Committee Competition. San Diego, Apr 13, 2007.

## **HONORS**

- Silver Badge. College of Economists of Pontevedra, Spain. Nov 2010.
- Who's is Who in America. 64<sup>th</sup> Edition, 2010. New Providence, NJ: Marquis Who's Who LLC. Oct 2009.
- Meritorious Service Award. College of Pharmacy, University of Minnesota. Minneapolis, Minnesota, 2002.
- Rho Chi Academic Honor Society in Pharmacy, University of Minnesota Chapter. Minneapolis, Minnesota, 1999.
- Melandy Fellowship College of Pharmacy. University of Minnesota. Minneapolis, Minnesota, 1996-2001.

## **TEACHING**

### **INSTRUCTOR**

#### **Chapman University**

- Research Methods and Statistics. 2 credit hours. PharmD Program. Instructor and coordinator. Chapman University School of Pharmacy. Spring 2021.
- Introduction to the Health Care System. 3 credit hours. PharmD Program. Instructor and coordinator. Chapman University School of Pharmacy. Fall 2020.
- Market Access, Pricing, and Reimbursement. 3 credit hours. Pharmaceutical Sciences Graduate Program. Chapman University School of Pharmacy. Spring 2020, 2021.
- Biopharmaceutical Market Access, Pricing and Reimbursement. 3 credit hours. Pharmaceutical Sciences Graduate Program. Chapman University School of Pharmacy. Spring 2020, 2021.
- The Capstone Project. 1 credit hours. PharmD Program. Chapman University School of Pharmacy. Spring/Summer/Fall 2019, 2020, 2021.
- Economic Evaluation of Health Care Services and Products. 3 credit hours. Pharmaceutical Sciences Graduate Program. Chapman University School of Pharmacy. Spring 2019 and 2020, Fall 2021.
- Research in Biomedical & Pharmaceutical Sciences. 3 credit hours. Pharmaceutical Sciences Graduate Program. Chapman University School of Pharmacy. Spring 2019.
- Selected Topics in Pharmaceutical Sciences. 3 credit hours. Pharmaceutical Sciences Graduate Program. Chapman University School of Pharmacy. Spring 2019.
- Pharmacoeconomics and Pharmacoeconomics. 2 credit hours. PharmD Program. Chapman University School of Pharmacy. Summer 2018 and 2019.
- Pharmacoeconomics and Pharmacoeconomics. 2 credit hours. Graduate Program in Pharmaceutical Sciences Pharmaceutical. Chapman University School of Pharmacy. Spring 2018.
- Research in Biomedical & Pharmaceutical Sciences. Graduate Program in Pharmaceutical Sciences Pharmaceutical. Chapman University School of Pharmacy. Fall 2017, Spring 2018, Summer 2018.

#### **Massachusetts College of Pharmacy & Health Sciences (MCPHS University, Boston, MA)**

- Market Access, Pricing and Reimbursement of Drugs and Medical Devices. 3 credit hours. MS/PhD in Pharmaceutical Economics and Policy. MCPHS. Spring Semester 2016.
- Introduction to Pharmaceutical Economics and Policy. 3 credit hours. MS/PhD in Pharmaceutical Economics and Policy. MCPHS. Fall Semesters 2011-2016.

- Selected Topic in Pharmaceutical Economics and Policy. 3 credit hours. MS/PhD in Pharmaceutical Economics and Policy. MCPHS. Fall Semester 2011-2014; Spring Semester 2012 and 2014; Summer Session I 2012 and 2013.
- Health Economics (Online). 3 credit hours. MS in Regulatory Affairs and Health Policy. MCPHS. Fall Semester 2013-2014.
- Health Economics. 3 credit hours. MS in Regulatory Affairs and Health Policy. MCPHS. Fall Semester 2010-2015.
- Pharmacoeconomics. 3 credit hours. BS in Pharmaceutical & Health Care Business. MCPHS. Fall Semester 2010-2014.
- Qualitative Methods in Pharmaceutical Economics and Policy. Sarah Shoemaker and Enrique Seoane (co-instructors). MS/PhD in Pharmaceutical Economics and Policy. MCPHS. Spring Semester 2012 and 2015.
- Principles of Pharmacoeconomics and Outcomes Research. 3 credit hours. PharmD Elective. Khaled Elsaid and Enrique Seoane (co-instructors). MCPHS. Spring Semester 2012.

#### **Ohio State University (Columbus, OH)**

- Economic Evaluation of Health Care Programs and Services. 4 credit hours. Graduate Students of Pharmacy, Public Health, Medicine, Nursing, and Public Policy. Ohio State University. Spring Quarter 2003-2009.
- Pharmacy Practice Management. 3 credit hours. PharmD. Ohio State University. Spring Quarter 2003-2009.
- Social and Administrative Pharmacy Seminar. 1 credit hour. Graduate Students of Pharmacy. Ohio State University. Spring Quarter 2003.

#### **University of Minnesota (Minneapolis, MN)**

- Pharmacoeconomics: Methods. 20 CE credits. Continuing Education Course on the Internet for Practicing Pharmacists. College of Pharmacy, University of Minnesota. Jun 12 - Jul 16, 2000.
- Pharmacoeconomics: Applications. 20 CE credits. Continuing Education Course on the Internet for Practicing Pharmacists. College of Pharmacy, University of Minnesota. Jul 17 - Aug 18, 2000.
- Pharmaceutical Economics and Public Policy. 1 credit hour (2000), 2 credit hours (2001). College of Pharmacy, University of Minnesota. 2-credit course. Spring Semesters, 2000 and 2001.
- Pharmacoeconomics. 1 credit hour. Course on the Internet for the PharmD. Program for Practicing Pharmacists. College of Pharmacy, University of Minnesota. Nov-Dec 1999; and Nov Dec 2001.

#### **Other Universities**

- Pharmacoeconomics Seminar. 20 hours. University of Montevideo, Uruguay. Sep 9-13, 2002.
- Health Economics Course on the Internet. Ph.D. in Law. Research Unit of the Hospital General Yagüe de Burgos; the College of Law, University of Burgos; and the Foundation Burgos por la Investigación de la Salud. Mar 6-Apr 5, 2001.
- Health Economics Course on the Internet. Ph.D. in Medicine. PRIME Institute, University of Minnesota; Research Unit of the Hospital General Yagüe de Burgos; College of Medicine, University of Valladolid; and the Foundation Burgos por la Investigación de la Salud. Jan 10-21, 2000.
- Pharmacoeconomics. 1 credit hour. Ph.D. in Pharmacy. College of Pharmacy, University Central of Venezuela. Oct 25-29, 1999.

#### **PARTICIPATION IN COURSES**

- Introduction to Health Care. 2 1-hour lectures. PharmD Program. Chapman University School of Pharmacy. Daniel Tomaszewski (instructor). Fall 2017.
- Quantitative Methods in Pharmaceutical Economics and Policy. 2 3-hour lectures. John Seeger (instructor). MS/PhD in Pharmaceutical Economics and Policy. MCPHS. Fall Semester 2011.
- Research Methods in Pharmacoepidemiology. 2-hour lecture. Khaled A. Elsaid (instructor). MCPHS. Spring Semester, 2011 and 2012.
- The Pharmaceutical Industry. 1.5-hour lecture. Seminar “The Business of Medicine.” Tom Williams (Director). College of Medicine, Ohio State University. Spring Quarter 2007.

- The Pharmaceutical Sector: An International Perspective. 3 hour-class. International Health Policy and Systems, Graduate Course. School of Public Health, Ohio State University. Spring Quarters 2004 and 2006.
- An Overview of the Pharmaceutical Sector and Approaching a Lasting Cure for the US Healthcare Industry. 2-hour lecture. MBA Course “The Business of Health.” W.C. Benton (instructor). Fisher College of Business, Ohio State University. Spring Quarters 2004-2008.
- Pharmaceutical Economics and Drug Policy. Social and Administrative Pharmacy Graduate Ph.D. Students. College of Pharmacy, University of Minnesota. Stephen Schondelmeyer and Ronald Hadsall (instructors). Fall 2001.
- Pharmaceutical Care for Spanish Speaking Practitioners. Peters Institute of Pharmaceutical Care, College of Pharmacy, University of Minnesota. Madrid, Mar 12-17, 2000; Minnesota, Nov 15-19, 1999; and Minnesota, Apr 17-23, 1999.
- Pharmacy and the Health Care System. PharmD course. College of Pharmacy, University of Minnesota. Stephen Schondelmeyer (instructor). Spring 1998-Fall 2001.
- Hospital Management. Workshop. Master of Health Care Administration and Management. Department of Health. Department of Public Health, University of Santiago de Compostela, Spain. Nov 15-24, 1993.

## STUDENT ADVISING

### DOCTORAL STUDENTS (DISSERTATION ADVISOR)

1. Buthainah Ghanem, PhD in Pharmaceutical Economics and Policy, Chapman University School of Pharmacy. Current Student.
2. Roya Hosseini, PhD in Pharmaceutical Economics and Policy, Chapman University School of Pharmacy. Current Student.
3. Hana A. Althobaiti, PhD in Pharmaceutical Economics and Policy, Chapman University School of Pharmacy. Current Student.
4. Mohammed Jamjoom, PhD in Pharmaceutical Economics and Policy, Chapman University School of Pharmacy. Current Student.
5. Vaishali Shukla, PhD in Pharmaceutical Economics and Policy, Chapman University School of Pharmacy. Dec 2018.  
*Dissertation:* An Economic and Regulatory Analysis of Cellular and Gene Therapy Products.  
*Current position:* Vice President, Quality - Commercial Manufacturing, Santa Monica, California.
6. Mona Alsheikh, PhD in Pharmaceutical Economics and Policy, Chapman University School of Pharmacy. Aug 2018.  
*Dissertation:* Trends in Opioid Prescribing in Primary Care Physician Offices in the U.S.: 2006-2015.  
*Current position:* Assistant Professor of Pharmaceutical Economics and Policy, King AbdulAziz University, Jeddah, Saudi Arabia.
7. Saad Alqahtani, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Major advisor until Jun 2017. Dec 2017.  
*Dissertation:* A Pharmaceutical Economics and Policy Analysis of Systemic Antibiotic Drugs Approved in the United States.  
*Current position:* Assistant Professor of Pharmaceutical Economics and Policy, Jazan University, Saudi Arabia.
8. Reem Al-Mutairi, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Major advisor until Jun 2017. Sep 2017.  
*Dissertation:* Drug Pricing before and after Generic Competition in the US in the Period of 2013-2016.  
*Current position:* Assistant Professor in Pharmaceutical Economic and Policy, Princess Nourah Bint Abdulrahman University, Riyadh, Saudi Arabia.
9. Abdulrahman Alshehri, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Sep 2017.  
*Dissertation:* Regulatory Review, Prices and Safety Communications of Human Immunodeficiency Virus Antiretroviral Drugs in the US.  
*Current position:* Director of Health Economic & Modeling at National Casemix Center of Excellence, Riyadh, Saudi Arabia.

10. Nasser Alshehri, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2017.  
*Dissertation:* Alzheimer's Disease Drugs: An Economic and Policy Analysis.  
*Current position:* Head of Pharmaceutical Planning- Department of Logistics-Prince Sultan Military Medical City, Riyadh, Saudi Arabia.
11. Pranav Abraham, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2017.  
*Dissertation:* The Impact of Different Payors on the Health Care Resource Utilization and Costs in Oncology Patients: A Retrospective Review of Electronic Medical Records.  
*Current position:* Director, Global Health Economics, Rare Hematology, Bristol-Myers Squibb. New Brunswick, New Jersey.
12. Ali Alshahrani, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2016.  
*Dissertation:* HIV Antiretroviral Drugs: Pricing, Comparisons of Approvals by the FDA and EMA, and Medicare Part D Coverage.  
*Current position:* Vice Dean, Associate Professor of Pharmaceutical Economics and Policy, Taif University, College of Pharmacy, Taif, Saudi Arabia.
13. Fatema Turkistani, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2016.  
*Dissertation:* Economics of Biologic Drugs in the US.  
*Current position:* Health Economics and Outcomes Research Fellow. University of California, San Francisco.
14. Stacey Springs, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2016.  
*Dissertation:* Therapeutic Orphans: The Utility of Regulatory Policies Toward Increasing Available Neonate-Specific Data on FDA Approved Drug Labels. *Current position:* Research Integrity Officer, Harvard University. Boston, MA.
15. Ahmad Alghamdi, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Sep 2016.  
*Dissertation:* An Economic Analysis of Biologic Disease Modifying Anti Rheumatic Drugs in the US.  
*Current position:* Assistant Professor of Pharmacoeconomics and Health Policy & Director of Pharmacoeconomics Research Unit, King Saud University, Riyadh, Saudi Arabia
16. Nupur Greene, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016.  
*Dissertation:* Oncology Drugs – Shortages, Pricing Trends, and Cost-Effectiveness Analysis in the US Market.  
*Current position:* Business Partner, Global & US Health Economics & Value Assessment Associate Director, Health Economics, Sanofi-Genzyme, Cambridge, MA.
17. Soeun Kwon, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016.  
*Dissertation:* Analysis of Drugs Used in Diabetes Approved by the FDA and Marketed in the US in the period 1980- 2014.  
*Current position:* Research Principal, Purple Squirrel Economics, New York, NY.
18. Aseel Bin Sawad, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2015.  
*Dissertation:* Multiple Sclerosis Disease-Modifying Therapies: Price Analysis, Assessment of Disease Progression, and Cost-Effectiveness Analysis.  
*Current position:* Global Reimbursement & Health Economics Lead. Aeglea BioTherapeutics, Austin, TX.
19. Bander Balkhi, PhD in Pharmaceutical Economics and Policy, MCPHS-Boston. Sep 2015.  
*Dissertation:* Osteoporosis Drugs: Approval, Pricing, Utilization, and Expenditures.  
*Current position:* Associate Professor of Pharmaceutical Economics and Policy, Director, Pharmacoeconomics Research Unit, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
20. Zaina Qureshi, PhD in Pharmacy Administration, Ohio State University, Aug 2009. Co-Advisor.  
*Dissertation:* Market Discontinuation of Pharmaceuticals in the US: Analysis of New Drugs Approved from 1980 to 2008.  
*Current position:* Director, Center for Observational and Real World Evidence, Merck Inc. Jamesburg, New Jersey.

21. Jay Visaria, 2007-08 Pathak Fellow. Master and Ph.D. in Pharmacy Administration, Ohio State University, Dec 2008.  
*Dissertation:* A Model Comparing Drug Utilization and Expenditures in Mail-Order and Community Pharmacy in a Retiree Population.  
*Current position:* Director, HealthCore, Inc, Philadelphia, PA.
22. Sam Olaiya, PhD. in Public Health, Ohio State University, Nov 2005. Co-Advisor.  
*Dissertation:* Medical Cost Savings Attributable to Comprehensive Sex Education Programs that Delay Coitus and Increase Condom Use Among Adolescents in the U.S.  
*Current position:* Captain (retired), United States Navy. Uniformed Services University of the Health Sciences, Assistant Professor, Bethesda, Maryland

#### **DOCTORAL STUDENTS (DISSERTATION COMMITTEE MEMBER)**

1. Salena Preciado, PhD in Pharmaceutical Sciences. Chapman University School of Pharmacy. Current Student.
2. Olajide Adekunle, PhD in Pharmaceutical Sciences. Chapman University School of Pharmacy. Current Student.
3. Jing Hao, PhD in Public Health. School of Public Health and Health Sciences. University of Massachusetts, Amherst. Sep 2015.
4. Andrew P. Beyer, PhD in Pharmacy Administration, Ohio State University, Aug 2009.

#### **MASTER'S STUDENTS PLAN A THESIS (ADVISOR)**

1. Turki Altowairgi, MS in Pharmaceutical Sciences, Pharmaceutical Economics and Policy Research Area Chapman University School of Pharmacy. Current student.
2. Saad Alharthi, MS in Pharmaceutical Sciences, Pharmaceutical Economics and Policy Research Area Chapman University School of Pharmacy. Current student.
3. Kamron Lotfi, MS in Pharmaceutical Sciences, Pharmaceutical Economics and Policy Research Area Chapman University School of Pharmacy. Aug 2021.  
*Thesis:* Cost-Effectiveness Analysis of Tisagenlecleucel, Blinatumomab, and Clofarabine for Treatment of B-cell Precursor Acute Lymphoblastic Leukemia.
4. Hana A. Althobaiti. MS in Pharmaceutical Sciences, Pharmaceutical Economics and Policy Research Area, Chapman University School of Pharmacy. Dec 2019.  
*Thesis:* Trends in Prices of Insulin in the US.
5. Saif Al Hawwashi, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2015.  
*Thesis:* Prices of New Drugs with Orphan Designation in the US (1983-2015).
6. Rajan Thumar, MS in Regulatory Affairs and Health Policy, MCPHS-Boston. May 2015.  
*Thesis:* An Analysis of the Ultra-Orphan Drugs Approved by the FDA in the Period Jan 1983-Oct 2014.
7. Ebtissam Badawoud, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2015.  
*Thesis:* Automation of Hospital Medication Distribution Systems in the US.
8. Abdulrahman Alshehri, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2014.  
*Thesis:* Assessment of HIV Antiretroviral Drug Utilization and Expenditures in Medicaid 1991-2014.
9. Mona Y. Alsheikh. MS in Pharmaceutical Economics and Policy, MCPHS-Boston. Dec 2014.  
*Thesis:* A Comparison of Drug Shortages in the Hospital Setting in the United States and Saudi Arabia: An Exploratory Analysis.
10. Saad Alqahtani, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2014.  
*Thesis:* A Comparison of Priority Review of New Drugs Approved by the EMA and the FDA in the Period 1999-2011.
11. Elizaveta Vaysbrot, MS in Regulatory Affairs and Health Policy, MCPHS-Boston. May 2013  
*Thesis:* Orphan Drugs - the New Blockbusters? Strategic Paradigm Shift for Large Pharmaceutical Companies.
12. K. Michael Grier, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, Dec 2012.  
*Thesis:* Orphan Drug Market Developments in the US and the EU.

13. Ingrid Lapsa, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, May 2012.  
*Thesis:* Clinical Monitoring in Human Subjects Research: Transitioning Industry to a Risk-Based Approach.
14. Tara Hittinger, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, May 2012.  
*Thesis:* Pediatric Medicinal Product Research and Development: Issues, Challenges and Proposals for Improvement.
15. Jonathan Donaldson, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, May 2011.  
*Thesis:* Harmonization and the World's Most Critical Drugs – A Look at What Is Happening in the United States and European Union.
16. Erin Coyne, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, May 2011.  
*Thesis:* Analysis of FDA Letters in Violation of Marketing with Patient-Reported Outcomes Claims (1997-2010).
17. Kerry Spielberger, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, May 2011.  
*Thesis:* Risk Evaluation Mitigation Strategies: Who is Responsible for Drug Safety?
18. Mayank Choudhary, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, Dec 2010.  
*Thesis:* Regulation of Medical Devices in the European Union and the United States: The Case of Coronary Stents.
19. Ketaki Bendre, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, Dec 2010.  
*Thesis:* Evergreening Strategies Used by Pharmaceutical Companies in USA.

**MASTER'S STUDENTS PLAN B PROGRAM (ADVISOR)**

1. Elizabeth Chang, MS in Pharmacy Administration, Ohio State University, Jun 2009.
2. Katharine A. Adkins, MS in Health-Systems Pharmacy Administration with Combined Residency, Ohio State University, Jun 2007.
3. Amanda J. Hord. MS in Health-Systems Pharmacy Administration with Combined Residency, Ohio State University, Jun 2007.
4. Janinah Hernandez, MS in Health-Systems Pharmacy Administration with Combined Residency, Ohio State University, Jun 2006.
5. Stephanie Smith, MS in Health-Systems Pharmacy Administration with Combined Residency, Ohio State University, Jun 2006.
6. Satish Valluri, MS in Pharmacy Administration, Ohio State University, Sep 2005.
7. Quovadis Epps, MS in Health-Systems Pharmacy Administration with Combined Residency, Ohio State University, Jun 2005.

**MASTER'S STUDENTS (THESIS COMMITTEE MEMBER)**

1. Alhanoof Alnafesah, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016
2. Fatimah Alyami, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016.
3. Razan Alkatan, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016.
4. Aseel Jambi. MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016.
5. Bsmah Bojan, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2016.
6. Ahmad Alharbi, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. Sep 2015.
7. Mohammed Alasmari, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. Sep 2015.
8. Majed Algarni, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2015.
9. Ahmed Alatawi, MS in Pharmaceutical Economics and Policy, MCPHS-Boston. May 2015.
10. Kristina Reinold, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, Dec 2012.
11. Bethany Davis, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, Dec 2012.
12. Ashley Darnell, MS in Regulatory Affairs and Health Policy, MCPHS-Boston, May 2012.
13. Binita Patel, MS in Health-Systems Pharmacy Administration, Ohio State University, Jun 2008.
14. Jay Visaria, Master of Public Health, Ohio State University, Dec 2007.



15. Tara L. Hanuscak, MS in Health-Systems Pharmacy Administration with Combined Residency, Ohio State University, Jun 2007.
16. Ashish Parekh, MS in Pharmacy Administration, Ohio State University, Dec 2006.
17. Carmen Inquilla, MS in Health-Systems Pharmacy Administration, Ohio State University with Combined Residency, Jun 2006.
18. Satish Valluri, Master of Public Health, Ohio State University, Jun 2005.

#### **PHARMD CAPSTONE PROJECTS**

1. Christopher Vu. PharmD Capstone Project. Chapman University School of Pharmacy, Feb 2020-.
2. Ravi Patel. PharmD Capstone Project. Chapman University School of Pharmacy, Feb 2020-.
3. Natalie Banh. PharmD Capstone Project. Chapman University School of Pharmacy, Feb 2019-.
4. Dhruv Patel. PharmD Capstone Project. Chapman University School of Pharmacy, Feb 2019-.
5. Yvonne Nguyen. PharmD Capstone Project. Chapman University School of Pharmacy, Feb-Jun 2019.
6. Carolyn Nguyen. PharmD Capstone Project. Chapman University School of Pharmacy, Mar 2018-.
7. Trung Le. PharmD Capstone Project. Chapman University School of Pharmacy, Mar 2018-.
8. Dustin Nguyen. PharmD Capstone Project. Chapman University School of Pharmacy, Mar 2018-.

#### **PHARMD ROTATIONS**

- Diane Nguyen. PharmD Rotation in Pharmaceutical Economics and Policy, MCPHS-Boston, 2011.

#### **PHARMACY RESIDENCY ROTATIONS**

- Christianah Kolajo. Residency Rotation. MCPHS/Harvard Vanguard Medical Associates Pharmacy Practice Residency, MCPHS-Boston, May-Jun 2011.

#### **FELLOWSHIPS IN HEALTH ECONOMICS AND OUTCOMES RESEARCH (ACADEMIC ADVISOR)**

- Catherine Pham, PharmD. Pharmaceutical Economics and Policy Fellow. Chapman University School of Pharmacy-Kaiser Permanente. Sep 2019-Aug 2021.
- Alykhan Jamal. Health Economics and Outcomes Fellow. Biopharmaceutical Industry Fellowship Program MCPHS-Becton Dickinson, Sep 2016-Jun 2017.
- Charles Callahan, PharmD. Health Economics and Outcomes Fellow. Biopharmaceutical Industry Fellowship Program MCPHS-Becton Dickinson, Sep 2015-Dec 2016.
- Stefan DiMario, PharmD. Health Economics and Outcomes Fellow. Biopharmaceutical Industry Fellowship Program MCPHS-Becton Dickinson, Sep 2014-Mar 2016.
- Paul Le. Summer Undergraduate Research Fellowship in Pharmaceutical Economics, Policy, and Outcomes, MCPHS-Boston, 2011.

#### **CLINICAL PHARMACY RESEARCH FELLOW (ACADEMIC ADVISOR)**

- Ali Alharbi. Clinical Pharmacy Research Fellow, MCPHS-Boston, Sep 2016- Jun 2017.

#### **INTERNSHIPS**

- Leandro Pereira Ribeiro Neto, MPCHS University Summer Internship, 2015.
- Erika Da Silva Monteiro, MPCHS University Summer Internship, 2015.

#### **PHI LAMBDA SIGMA (PHARMACY LEADERSHIP SOCIETY) - MENTEE PROGRAM**

- Mentor for 2 PharmD Students. MCPHS-Boston, Feb-May 2012.

#### **GRADUATE FACULTY REPRESENTATIVE IN FINAL ORAL EXAMINATIONS FOR THE DOCTORAL DEGREE**

- Department of Spanish and Portuguese, Ohio State University, Dec 4, 2008
- Department of Spanish and Portuguese, Ohio State University, Dec 20, 2004.

#### **VISITING SCHOLARS**

- Philippe Gorry, MD, PhD. Associate Professor. Health Sciences College, Medical School & Department of Humanities & Social Sciences, Research Unit in Theoretical & Applied Economics. University of Bordeaux, France. Visiting Professor, Chapman University School of Pharmacy, Feb-May 2019.

- Minette-Joëlle Zeukeng, PhD, PharmD, FPH. University of Geneva, Geneva-Lausanne School of Pharmacy. Visiting Scholar, MCPHS University, School of Pharmacy, Jul 2014-Jan 2015.

## **PEER REVIEWER**

### **PEER-REVIEWER - GRANTS**

- National Institutes of Health. NIH Challenge Grants in Health and Science Research (RC1), Jun 2009.
- Colombian Institute for Science and Technology Development. National Program of Health Science and Technology, 459-2008.

### **EDITORIAL BOARDS – JOURNALS**

1. Journal of Generic Medicines, Member of the Editorial Board, 2011-.
2. Journal of Pharma & Pharmaceutical Sciences, Member of the Editorial Board, 2015-2016.
3. World Journal of Gastrointestinal Endoscopy. Member of the Editorial Board, 2010-2013.
4. Electronic Journal of Biomedicine. Member of the Scientific Committee, 2006-2014.

### **PEER-REVIEWER – JOURNALS**

- |   |  |
|---|--|
| 1. American Journal of Public Health                      | 22. Journal of Pharma & Pharmaceutical Sciences          |
| 2. BMC Health Services Research                           | 23. Journal of Pharmaceutical Policy and Practice        |
| 3. BMJ  | 24. Journal of Pharmaceutical Science and Drug Designing |
| 4. BMJ Open   | 25. Journal of the American Pharmacists Association      |
| 5. BMJ Quality & Safety                                   | 26. Medicine Access @ Point of Care                      |
| 6. British Journal of Clinical Pharmacology               | 27. Microbial Cell Factories                             |
| 7. Bulletin of the World Health Organization              | 28. Pharmaceutical Medicine                              |
| 8. Clinical Research and Regulatory Affairs               | 29. Research in Social and Administrative Pharmacy       |
| 9. Electronic Journal of Biomedicine                      | 30. Review of Pharmacoeconomics & Outcomes Research      |
| 10. Expert Opinion On Biological Therapy                  | 31. Pharmacoeconomics and Drug Safety                    |
| 11. Expert Opinion on Orphan Drugs                        | 32. PLOS ONE   |
| 12. Gene Therapy  | 33. Scientific Reports                                   |
| 13. Health Affairs  | 34. The Lancet Oncology                                  |
| 14. Human Resources for Health                            | 35. Therapeutic Innovation & Regulatory Science          |
| 15. JAMA  | 36. Vaccine  |
| 16. Journal of Alzheimer's Disease                        | 37. Value in Health                                      |
| 17. Journal of Health Policy and Planning                 | 38. Value in Health Regional Issues                      |
| 18. Journal of Generic Medicines                          | 39. World Journal of Gastrointestinal Endoscopy          |
| 19. Journal of Medical Economics                          |  |
| 20. Journal of Pharmaceutical Finance, Economics & Policy |  |
| 21. Journal of Pharmaceutical Health Services Research    |  |

### **PEER-REVIEWER - PROFESSIONAL MEETINGS**

#### **AMERICAN PHARMACISTS ASSOCIATION – CONTRIBUTED POSTER JUDGE**

- Judge. APhA2015 APhA-APPM Contributed Papers Program. American Pharmacists Association Annual Meeting & Exposition, San Diego, CA, Mar 27-30, 2015.

#### **AMERICAN PUBLIC HEALTH ASSOCIATION – CONTRIBUTED ABSTRACT REVIEWER**

- 144<sup>th</sup> APHA Annual Meeting and Exposition, Colorado, Oct 29 - Nov 2, 2016.
- 143<sup>rd</sup> APHA Annual Meeting and Exposition, Chicago, Oct 31-Nov 4, 2015.
- 142<sup>nd</sup> APHA Annual Meeting and Exposition, New Orleans, Nov 15 - Nov 19, 2014.

INTERNATIONAL SOCIETY FOR PHARMACOECONOMICS AND OUTCOMES RESEARCH – CONTRIBUTED  
ABSTRACT REVIEWER AND JUDGE

- 24<sup>th</sup> Annual International Meeting. Issue Panel Review Committee Member. New Orleans, LA. May 18-22, 2019.
- 23<sup>rd</sup> Annual International Meeting. Issue Panel Review Committee Member. Baltimore, MD, May 19-23, 2018.
- 20<sup>th</sup> Annual International Meeting. Issue Panel Review Committee Member. Philadelphia, PA. May 16-10, 2015.
- 19<sup>th</sup> Annual International Meeting. Montreal, QC, Montreal. May 21- Jun 4, 2014. Judge. Research Podium and Poster Presentations, & Research Abstract Review Committee Member.
- 18<sup>th</sup> Annual International Meeting. Research Abstract Review Committee Member. New Orleans, LA, May 18-22, 2013.
- 17<sup>th</sup> Annual International Meeting. Research Abstract Review Committee Member. Washington DC, Jun 2-6, 2012.
- 16<sup>th</sup> Annual International Meeting. Research Abstract Review Committee Member. Baltimore, MD, May 21-25, 2011.
- 13<sup>th</sup> Annual European Congress. Research Abstract Review Committee. Prague, Czech Republic, Nov 6-9, 2010.
- 15<sup>th</sup> Annual International Meeting. Research Abstract Review Committee Member. Atlanta, GA, May 15-19, 2010.
- 12<sup>th</sup> Annual European Congress. Research Abstract Review Committee. Paris, France, Oct 24-27, 2009.
- 2<sup>nd</sup> Latin American Conference. Rio de Janeiro, Brazil, Sep 10-12, 2009.
- 14<sup>th</sup> Annual International Meeting. Research Abstract Review Committee Member. Orlando, FL May 16-20, 2009.
- 11<sup>th</sup> Annual International Meeting. Research Abstract Review Committee Member. Philadelphia, May 20-24, 2006.

INTERNATIONAL HEALTH ECONOMICS ASSOCIATION. – CONTRIBUTED ABSTRACT REVIEWER

- 13<sup>th</sup> World Congress. Virtual Meeting. Jul 12-15, 2021.
- 12<sup>th</sup> World Congress. Basel, Jul 13-17, 2019.
- 11<sup>th</sup> World Congress. Boston, Jul 8-11, 2017.
- 10<sup>th</sup> World Congress. Milan, Jul 12-15, 2015.
- 9<sup>th</sup> World Congress. Sydney, Jul 7-10, 2013.
- 8<sup>th</sup> World Congress. Toronto, Jul 10-13, 2011.
- 7<sup>th</sup> World Congress. Beijing, Jul 12-15, 2009.
- 6<sup>th</sup> World Congress. Copenhagen, Jul 8-11, 2007.

INTERNATIONAL SOCIETY FOR PHARMACOEPIDEMOLOGY

- 32<sup>nd</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE). Dublin, Ireland. Aug 25-28, 2016.

## **SERVICE**

### **SERVICE AT PROFESSIONAL ASSOCIATIONS**

#### **AMERICAN PUBLIC HEALTH ASSOCIATION**

- Moderator of the Session: Rethinking prescribing drug models. 146<sup>th</sup> American Public Health Association Annual Meeting. San Diego, CA. Nov 12, 2018.
- Chair, Drug Policy and Pharmacy Service Committee, Medical Care Section. American Public Health Association. Nov 2013-Nov 2016.
- Member of the International Health Section Working Group. 141<sup>th</sup> American Public Health Association Annual Meeting. Boston, Nov 8-5, 2013.
- Moderator of the Session: International Perspectives in Health Administration. 141<sup>th</sup> American Public Health Association Annual Meeting. Boston, Nov 5, 2013.
- Organizer and Moderator of the Session: Drug Policy & Pharmacy Services Session. 140<sup>th</sup> American Public Health Association Annual Meeting. San Francisco, Oct 30, 2012.
- Moderator of the Session: Beyond Business-as-Usual Aid Models: Commercial & Social Entrepreneurship in the Health Sector. 140<sup>th</sup> American Public Health Association Annual Meeting. San Francisco, Oct 29, 2012.

#### **INTERNATIONAL HEALTH ECONOMICS ASSOCIATION (IHEA)**

- Member of the Scientific Committee. 13<sup>th</sup> World Congress. Virtual Meeting. Jul 12-15, 2021.
- Member of the Scientific Committee. 12<sup>th</sup> World Congress. Basel, Jul 13-17, 2019.
- Chair, Pharmaceuticals, Medical Technology and Spending Session. 12<sup>th</sup> World Congress. Basel, Jul 15, 2019.
- Chair, Pharmaceutical Markets Session. 12<sup>th</sup> World Congress. Basel, Jul 15, 2019.
- Member of the Scientific Committee. 11<sup>th</sup> World Congress. Boston, Jul 8-11, 2017.
- Member of the Scientific Committee. 10<sup>th</sup> World Congress. Milan, Italy, Jul 12-15, 2015.
- Member of the Scientific Committee. 9<sup>th</sup> World Congress. Sydney, Jul 7-10, 2013.
- Member of the Scientific Committee. Scientific Committee. 2012 European Conference on Health Economics. Zürich, Jul 18-21, 2012.
- Member of the Scientific Committee. 8<sup>th</sup> World Congress. Toronto, Jul 10-13, 2011.
- Member of the Scientific Committee. 7<sup>th</sup> World Congress. Beijing, Jul 12-15, 2009.
- Chair, Health Care Financing Session. 7<sup>th</sup> World Congress. Beijing, Jul 15, 2009.
- Member of the Scientific Committee. 6<sup>th</sup> World Congress. Copenhagen, Jul 8-11, 2007.
- Chair, Health Care Financing Session. 6<sup>th</sup> World Congress. Copenhagen, Jul 10, 2007.

#### **INTERNATIONAL SOCIETY FOR PHARMACOECONOMICS AND OUTCOMES RESEARCH (ISPOR)**

- Faculty Advisor. ISPOR-Chapman University Student Chapter. Apr 2018-.
- Faculty Advisor. ISPOR-MCPHS Student Chapter. Sep 2013-Jun 2017.
- MCPHS ISPOR Chapter 2<sup>nd</sup> Place in the ISPOR Student Research Competition. ISPOR 19<sup>th</sup> Annual International Meeting, May 31- Jun 4, 2014, Montreal, QC, Canada.
- Member of the ISPOR Medical Devices & Diagnostics SIG Leadership. Mar 2013-.
- Member of the International Society for Pharmacoeconomics and Outcomes Research Global Health Care Reimbursement Systems and Decision Processes Working Group. Mar 2009-.
- Judge of Research Poster and Podium presentations. ISPOR 19<sup>th</sup> Annual International Meeting, May 31- Jun 4, 2014, Montreal, QC, Canada.
- Member of the International Society for Pharmacoeconomics and Outcomes Research Health Technology Assessment of Emerging New Technologies Leadership Group. Sep 2006-Mar 2009.
- Member of the International Society for Pharmacoeconomics and Outcomes Research Drug Cost Task Force Medicare and Medicaid Subgroup. Washington DC, Jun 2006-.

#### ACADEMY OF MANAGED CARE PHARMACY (AMCP)

- Faculty Advisor AMCP Chapman University School of Pharmacy Chapter. Jul 2020-.
- Faculty Advisor AMCP Massachusetts College of Pharmacy and Health Sciences Chapter. Sep 2010-Jun 2017
- Faculty Advisor AMCP Ohio State University, College of Pharmacy Chapter. Jan 2004- Jun 2010.
  - Finalist Chapter, AMCP National Pharmacy & Therapeutics Committee Competitions 2004-2008.
  - Second Place Chapter in the AMPC 7<sup>th</sup> Annual National Pharmacy & Therapeutics Committee Competition. San Diego, Apr 13, 2007.
  - Second Place Chapter in the AMPC 8<sup>th</sup> Annual National Pharmacy & Therapeutics Committee Competition. San Francisco, Apr 18, 2008.

#### SERVICE AT AGENCIES, INSTITUTIONS AND ORGANIZATIONS

- Chair of the Drug Shortages Workgroup. Patient Safety Movement Foundation, Irvine, California. Feb 2017-.
- Member of the Board of Directors. PEJUTA: Indigenous MTMS, Inc. Saint Paul, MN. Apr 2011-Sep 2012.
- Content expert in the area of pharmacy, Ohio Family Health Survey 2008. Ohio Department of Health and Family Services. Columbus, Ohio.2008.
- Member of the Steering Committee Pharma 20/20. Tellus Institute. Boston, Massachusetts. Jan 2006.
- Ohio Pharmacist Association. Collaboration in policy analysis, several committees and proposals, 2003-2010.
- Member of the Generics Consultative Group. The World Bank. Washington, DC. 2003.

#### SERVICE AT CHAPMAN UNIVERSITY

##### COMMITTEES

- Search Committee. Tenure Track Position of Social and Administrative Pharmacy (Chair). Dec 2020-.
- Academic Integrity Task Force (Member). Aug-Sep 2019.
- Full Professors Review Committee - Non-Tenured Track Professor of Pharmacy Practice (Chair). Aug 2019.
- Search Committee, Non-Tenured Track Professor of Pharmacy Practice (Chair). Aug 2019.
- Patient Safety Committee. School of Pharmacy. May 2019-.
- Academic Standing Committee (Member). School of Pharmacy. Aug 2018-Sep 2019.
- Faculty Grievance Board (Member). Chapman University. Aug 2018-Sep 2019.
- School of Pharmacy Strategic Planning Committee (Member). Feb 2018-Jun 2019.
- University IRB (Member). Chapman University. Jul 2017-.
- Graduate Program and Research Committee (Member). School of Pharmacy. Jul 2017-.
- Faculty Review Committee (Member). School of Pharmacy. Jul 2017-.

##### GRADUATE PROGRAMS DEVELOPMENT

- MS in Patient Safety. Program proposal and development, Aug 2018-.
- MS in Regulatory Affairs. Program proposal and development, Aug 2017-.

#### SERVICE AT MASSACHUSETTS COLLEGE OF PHARMACY (MCPHS UNIVERSITY)

##### COMMITTEES

- PharmD Curriculum Committee (Member). School of Pharmacy. Sep 2016-Jun 2017.
- Awards Committee (Member). Department of Pharmaceutical Business and Administrative Sciences (PBAS), Sep 2016-Jun 2017.
- Strategy Planning Committee (Member). PBAS. Mar 2016-Jun 2017.
- Self-Study/Re-accreditation Committee (Member). School of Pharmacy, Sep 2012-Jun 2017.

- Graduate Curriculum Committee (Member). School of Pharmacy, Sep 2012-Jun 2017.
- Graduate Academic Standing Committee Meeting (Member). School of Pharmacy. Sep 2013-Aug 2015.
- Search Committee Social and Administrative Pharmacy Position (Chair). School of Pharmacy, Apr 2013-Mar 2014.
- Curriculum Committee (Member). School of Pharmacy, Sep 2011-Aug 2012.
- Search Committee Social and Administrative Pharmacy Position (Chair). School of Pharmacy, Sep 2011-Dec 2012.
- Awards Committee (Member). School of Pharmacy, Sep 2011-Jun 2017.
- Pharmacy Admissions Committee (Member). School of Pharmacy, Dec 2010-Aug 2015

#### TASKFORCES

- MCPHS University- Institute of International Education (IIE) International Academic Partnership Program – Brazil (IAPP-Brazil). MCPHS University. Jan 2015-Jun 2017.
- MS in Health Systems Pharmacy Administration Task Force (Secretary). School of Pharmacy, Mar 2014-Mar 2015.
- Dossier Task Force (Member). School of Pharmacy. Sep 2013-Jun 2015.
- Area 3 Module Task Force (Member). School of Pharmacy, Jul 2013-Jun 2014.
- Member of the Taskforce to Examine the NAPLEX Area 3/ACPE Competencies (Member). School of Pharmacy, Aug-Oct 2011.

#### GRADUATE PROGRAMS DEVELOPMENT

- MS in Pharmaceutical Economics and Policy. Program proposal, May 2013.
- MS in Health Systems Pharmacy Administration Program proposal. Mar 2014.
- Graduate Program in Pharmaceutical Economics and Policy (Director). PhD and MS program proposal and course syllabi development. School of Pharmacy, Jul 2010-May 2011.

#### **SERVICE AT OHIO STATE UNIVERSITY**

- Admissions and Financial Aid Committee (Member). College of Pharmacy, 2008-2010.
- Ohio State University Health Sciences Team preparing the documents for a PBM request by Ohio Public Employees Retirement System and State Teachers Retirement System (Member). Columbus, Jan-Feb 2007.
- Ohio State University – Plan for Health (Member). Columbus, Ohio. Mar-Jun 2005.
- Pharmacy Administration Sequence Evaluation Committee (Member). Division of Pharmacy Practice and Administration. Summer of 2005.
- Practice Development Committee (Member). Division of Pharmacy Practice and Administration, 2005-2008.
- Practice Development Committee – Medicare and Medicaid Working Group (Member). Division of Pharmacy Practice and Administration, 2005.
- Faculty Searching Committee (Member). Division of Pharmacy Practice and Administration, 2003-2004.
- PharmD Admissions Committee (Member). College of Pharmacy, 2003-2004.
- Merrell Dow Professor Search Committee (Member). Division of Pharmacy Practice and Administration, 2003.

*Updated January 2, 2022*