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Dr. Wu is a health economist with expertise in health economics and outcomes research (HEOR), market access, and scientific evidence strategy. He has conducted research in more than 30 countries on behalf of pharmaceutical and medical device companies, payers, providers, and government agencies. Dr. Wu has contributed to over 200 publications across dozens of therapeutic areas, including regenerative therapies (gene and stem cell), rare and ultra-rare diseases, biologics, and immuno-oncology.

Dr. Wu spends a significant portion of his practice developing new scientific methods to address challenges in health care research. He has developed client-focused solutions based on the use of artificial intelligence (AI), medical big data, real-world evidence, and innovative comparative-effectiveness research methodologies.

**EDUCATION**

1998–2002	Ph.D. University of Southern California, Department of Pharmaceutical Economics and Policy School of Pharmacy
2001–2002	M.Sc. University of Southern California, Master’s Program in Regulatory Science (Regulation, Law, and Management in Health Care and Pharmaceutical Industry) School of Pharmacy
1998–2000	M.A. University of Southern California, Department of Economics, Successfully Completed the Ph.D. Core Theory Examinations for the Department of Economics
1993–1997	B.S. Peking University, Beijing, China, Biochemistry and Molecular Biology Department School of Life Sciences

**PROFESSIONAL EXPERIENCE**

2002–Present      Analysis Group, Inc.

**PUBLICATIONS**

**Articles in Peer-Reviewed Journals**

1. “The Economic Burden of Tenosynovial Giant Cell Tumors Among Employed Workforce in the United States,” Lin F, Ionescu-Ittu R, Pivneva I, Wynant W, Shi S, Wu E, Kwong WJ, Abraham JA. *Journal of Occupational and Environmental Medicine* 2021 04; 63(4):e197-e202. doi: 10.1097/JOM.0000000000002159.

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4. “An overview of patients with hemophilia A in China: epidemiology, disease severity, and treatment strategies,” Song X, Zhong J, Xue F, Chen L, Li H, Yuan D, Xie J, Shi J, Zhang L, Wu E, Yang R. *Haemophilia*. 2021 01; 27(1): e51-e59. E-pub ahead of print: 2020/11/07; doi: 10.1111/hae.14217.
5. “Effect of Risankizumab on Patient-Reported Outcomes in Moderate to Severe Psoriasis: The UltIMMa-1 and UltIMMa-2 Randomized Clinical Trials,” Augustin M, Lambert J, Zema C, Thompson EHZ, Yang M, Wu EQ, Garcia-Horton V, Geng Z Valdes JM, Joshi A, Gordon KB. *JAMA Dermatology*. 2020 Dec 1;156(12):1344-1353. doi: 10.1001/jamadermatol.2020.3617.
6. “The cost-effectiveness of low-dose budesonide as a Step 2 treatment for pediatric asthma in China,” Wang X, Fang H, Shen K, Liu T, Xie J, Liu Y, Zhong J, Wu E, Zhou W, Wu B. *Journal of Comparative Effectiveness Research*. 2020 11. E-pub ahead of print 2020/11/07; doi: 10.2217/cer-2020-0102.
7. “Healthcare Resource Use and Associated Costs in the Three Years Following the Initial Diagnosis of Diabetic or Idiopathic Gastroparesis: A Retrospective Claims Analysis,” Chen YJ, Tang W, Ionescu-Ittu R, Ayyagari R, Wu E, Huh SY, Parkman HP. *American Journal of Gastroenterology*. 2020 10; 115: S23-S24.
8. “Cost-effectiveness analysis of double low-dose budesonide and low-dose budesonide plus montelukast among pediatric patients with persistent asthma receiving Step 3 treatment in China,” Wang X, Fang H, Shen K, Liu T, Xie J, Liu Y, Wu P, Chen Y, Zhong J, Wu E, Zhou W, Wu B. *Journal of Medical Economics* 2020 09; 23(12): 1630-1639. e-pub ahead of print 2020/09/30; doi: 10.1080/13696998.2020.1830410.
9. “Clinical and Economic Outcomes of Erythropoiesis-Stimulating Agent Hyporesponsiveness in the Post-Bundling Era,” Cizman B, Smith HT, Camejo RR, Casillas L, Dhillon H, Mu F, Wu E, Xie J, Zuckerman P, Coyne D. *Kidney Medicine* 2020 08; 2(5): 589-599.e1. doi: 10.1016/j.xkme.2020.06.008.
10. “Postdischarge Health Care Costs and Readmission in Patients with Hyperkalemia-Related Hospitalizations.” Betts KA, Woolley JM, Mu F, Wang Y, Wang Y, Dua A, Wu EQ. *Kidney International Reports*. 2020 07; 5(8): 1280-1290. E-pub ahead of print 2020/08/11; doi: 10.1016/j.ekir.2020.06.004.
11. “Estimation of Total Costs in Pediatric and Young Adult Patients with Relapsed or Refractory Acute Lymphoblastic Leukemia Receiving Tisagenlecleucel from a U.S. Hospital’s Perspective.” Yang H, Hao Y, Qi CZ, Chai X, Wu EQ. *Journal of Managed Care & Specialty Pharmacy*. 2020 06; 0(0): 1-12. doi: 10.18553/jmcp.2020.20052.

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32. “Monitoring of Hematologic, Cardiac, and Hepatic Function in Post-Menopausal Women with HR+/HER2- Metastatic Breast Cancer,” Guerin A, Goldschmidt D, Small T, Gagnon-Sanschagrinn P, Romdhani H, Gauthier G, Kelkar S, Wu EQ, Niravath P, Dalal AA. *Advances in Therapy*. 2018 08; 35(8): 1251-1264. E-pub ahead of print 2018/06/28; doi: 10.1007/s12325-018-0740-y.
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46. “Healthcare Resource Use, Costs, and Disease Progression Associated with Diabetic Nephropathy in Adults with Type 2 Diabetes: A Retrospective Observational Study,” Zhou Z, Chaudhari P, Yang H, Fang AP, Zhao J, Law EH, Wu EQ, Jiang R, Seifeldin R. *Diabetes Therapy*. 2017 06; 8(3): 555-571. E-pub ahead of print 2017/04/01; doi: 10.1007/s13300-017-0256-5.
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#### **Book Chapter**

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#### **SELECTED CONFERENCE PRESENTATIONS**

1. Migraine-related healthcare resource use and costs associated with migraine chronification: a panel-based chart review. Vo P, Swallow E, Wu E, Ellis M, Katcher N, Maier-Peuschel M, Naclerio M, Ritrovato D, Joshi P, Ferraris M. 7th Congress of the European Academy of Neurology (virtual), June 19–22, 2021.
2. Cost of Chronic Myeloid Leukemia Care Among Patients in Advanced Phases or on Later Lines of Therapy in Chronic Phase in the United States from a Commercial and Medicare Perspective. Atallah EL, Maegawa R, Latremouille-Viau D, Rossi C, Guérin A, Wu EQ, Patwardhan P. 2021 Virtual International Society of Pharmacoeconomics and Outcomes Research (ISPOR) Annual Meeting, May 17–20, 2021.
3. Outcomes of single-agent onasemnogene abeparvovec or nusinersen, and of nusinersen switching to onasemnogene abeparvovec, in patients with spinal muscular atrophy: Results of a provider survey in the United States. Yang M, Georgieva M, Wu E, Dabbous O, LaMarca N, Shenouda L, Patel A, Toro W, Bischof M, Minkoff N. American Academy of Neurology Virtual Annual Meeting, April 17 -22, 2021.
4. Real-World Treatment Patterns, Healthcare Resource Utilization and Associated Costs among Patients with Chronic Myeloid Leukemia in Later Lines of Therapy: A SEER-Medicare Analysis. Atallah EL, Maegawa R, Latremouille-Viau D, Rossi C, Guérin A, Wu EQ, Patwardhan P. AMCP 2021 Virtual Annual Meeting, April 13-14, 2021.

5. Cost-Effectiveness Analysis of Newborn Screening for Spinal Muscular Atrophy in the United States. Arjunji R, Zhou J, Patel A, Edwards ML, Harvey M, Wu E, Dabbous O. AMCP Nexus 2020, November 19-21, 2020.
6. Outcomes of Pediatric Patients with Spinal Muscular Atrophy (SMA) Treated with Onasemnogene Apeparvovec: Results of a Provider Survey in the United States. Dabbous O, Yang M, LaMarca N, Wu E, Patel A, N. M, Toro W, Bischof M, Droege M, Wolff D, Georgieva M, Reyna S. ISPOR Europe 2020 Virtual Conference, November 14–18, 2020.
7. Reductions in migraine frequency and duration in patients with chronic migraine treated with erenumab: Interim results from a real-world multicenter chart-review study of US headache centers. Faust E, Pivneva I, Yang K, Betts KA, Ahmed Z, Hogan R, Blumenfeld AM, Schim J, Feoktistov A, Carnes K, Bensink ME, Wu EQ, Chou DE, Chandler D. Migraine Trust Virtual Symposium 2020, October 3–9, 2020.
8. Real-world clinical outcomes in patients with myelodysplastic syndromes treated with hypomethylating agents in the US: A SEER-Medicare analysis. Stein EM, Latremouille-Viau D, Shi S, Guérin A, Wu EQ, Bonifacio G, Cao X. European Hematology Association, Frankfurt, Germany, June 11–14, 2020.
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10. Treatment patterns and outcomes in patients with myelodysplastic syndromes treated with hypomethylating agents: A SEER-Medicare analysis. Stein E, Latremouille-Viau D, Joseph G, Shi S, Guerin A, Wu E, Bonifacio G, Cao XY. ASH 2019 Conference Orlando, FL, December 7–10. 2019.
11. Dupilumab improves outcomes in patients with atopic dermatitis (AD) in clinical practice – Results from the RELIEVE-AD study. Strober B, Mallya UG, Yang M, Gadkari A, Boklage S, Fenton M, Chamberlain CX, Sierka D, Wu EQ, Kimball AB. European Academy of Dermatology and Venereology (EADV) 28th Congress, Madrid, Spain, October 9–13, 2019.
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35. Comparative effectiveness of non-cisplatin (cis)-based first-line (1L) regimens in patients with metastatic urothelial carcinoma (mUC): Veterans Affairs control cohorts vs. IMvigor210. Vander Velde NS, Guerin A, Ionescu-Ittu R, Shi S, Wu E, Lin SW, Hsu LI, Saum KU, Ducla SD, Wang J, Li S, Derleth CL, Liu S, Shi L, Leppert J. Genitourinary Cancers Symposium, San Francisco, CA, Jan 18–20, 2018.
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38. Patient characteristics of premix insulin users in china: An analysis of electronic medical record data. Han S, Wang K, Hou J, Wang J, Wu EQ. ISPOR 20th Annual European Congress, Glasgow, UK, Nov 4–8, 2017.

39. Development of a predictive model for hyperkalemia. Betts K, Woolley JM, Mu F, Bocharova I, Bensimon AG, Wu E. American Society of Nephrology Kidney Week, Oct. 31–Nov. 5, 2017.
40. Economic burden of hyperkalemia in the Medicare system. Betts K, Woolley JM, Mu F, Xiang CQ, Dua A, Wu E. American Society of Nephrology Kidney Week, Oct. 31–Nov. 5, 2017.
41. Indirect comparison of sodium zirconium cyclosilicate versus patiromer in the treatment of hyperkalemia through 48 hours. Betts K, Woolley JM, Song Y, Gao W, Wu E. American Society of Nephrology Kidney Week, Oct. 31–Nov. 5, 2017.
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44. Assessing patient preferences for and relative importance of features of new direct acting antiviral (DAA) treatments for chronic hepatitis C virus (HCV) infections. Welzel TM, Yang M, Sajeev G, Pinsky B, Mehta D, Bao Y, Wu E, Chen YJ. 68th Annual Meeting of the American Association for the Study of Liver Diseases, Washington, DC, Oct 20–24, 2017.
45. Risk of contraindication and drug-drug interaction (DDI) with use of systemic immunosuppressants (IMMs) in adult patients with atopic dermatitis (AD). Armstrong A, Wei W, Garcia-Horton V, Macaulay D, Schmerold L, Wu E, Shah D, Chao J. Society for Investigative Dermatology (SID) 2017 Annual Meeting, Portland, OR, Apr 26–29, 2017.
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49. Clinical and economic outcomes of venous thromboembolism (VTE) among hospitalized patients in china: An analysis of electronic medical record data. Wu C, Chen H, Xie J, Han S, Horblyuk R, Wang PF, Liu L, Lu J, Song H, Du EX, Wu EQ. ISPOR 19th Annual European Congress, Vienna, Austria, Oct 29 –Nov 2, 2016.
50. Patient characteristics and treatment patterns of venous thromboembolism (VTE) among hospitalized patients in China: An analysis of electronic medical record data. Wu C, Chen H, Xie J, Han S, Horblyuk R, Wang PF, Liu L, Lu J, Song H, Du EX, Wu EQ. ISPOR 19th Annual European Congress, Vienna, Austria, Oct 29–Nov 2, 2016.
51. Indirect comparison of tolerability of deutetrabenazine and tetrabenazine in the first-HD and tetra-HD trials. Claassen DO, Carroll B, De Boer LM, Wu E, Ayyagari R, Gandhi S, Stamler D.

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52. Impact of severe adverse events during second-line therapy on healthcare costs in patients with advanced non-small cell lung cancer (aNSCLC). Yim YM, Gandhi M, Guerin A, Ionescu-Ittu R, Pivneva I, Shi S, Wu E. 41st European Society for Medical Oncology Congress, Copenhagen, Denmark, Oct 7–11, 2016.
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  54. The Prevalence of Hyperkalemia in the United States. Betts K, Woolley JM, Mu F, McDonald E, Tang W, Singhanian A, Pham H, Hollenack K, Wu EQ. AMCP Nexus 2016, Baltimore, MD, Oct 3–6, 2016.
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  56. The healthcare costs and utilisation associated with diabetic nephropathy in adult patients with type 2 diabetes in the US. Yang H, Zhou Z, Zhao J, Fang A, Wu E, Chaudhari P, Seifeldin R. 52nd Annual Meeting of the European Association for the Study of Diabetes, Munich, Germany, Sept 12–16, 2016.
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  61. Real-world Impact of Taiwan Health Policy on Dose Tapering and Withdrawing Biologics in Rheumatoid Arthritis Patients: A Retrospective Chart Review Study. Chang C, Chen K, Chen Y, Cheng T, Hsu P, Lai N, Lan J, Lee C, Lee S, Lin H, Tsay G, Yen J, Tsai C, Bao Y, Skup M, Yang M, Wu EQ, wGarg V. European League Against Rheumatism Congress, London, UK, Jun 8–11, 2016.
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63. Assessment of the real-world safety profile of vedolizumab using the united states food and drug administration adverse event reporting system (FAERS). Cross R, Vekeman F, Xiao Y, Wu EQ, Chao J, Wang A. Digestive Disease Week, San Diego, CA, May 21–24, 2016.
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  65. Rates of subsequent endometriosis-related surgeries following an initial laparoscopy or hysterectomy: A longitudinal analysis of commercially insured endometriosis patient in the United States. Soliman AM, Yang H, Du EX, Wu EQ, Castelli-Haley J, Winkel C. ISPOR 21st Annual International Meeting, Washington, DC, May 21–25, 2016.
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