

**ERIC QIONG WU, PH.D.**  
**Managing Principal**

Phone: 617 425 8254  
Fax: 617 425 8001  
eric.wu@analysisgroup.com

111 Huntington Avenue  
14th Floor  
Boston, MA 02199

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**

2021–Present	Peking University Institute for Global Health and Development <i>Adjunct Faculty</i>
2002–Present	Analysis Group, Inc.

**PUBLICATIONS**

**Articles in Peer-Reviewed Journals**

1. “Indirect comparison of the relative vaccine effectiveness of mRNA-1283 vs. BNT162b2 vaccines against symptomatic COVID-19 among US adults.” Beck E, Georgieva M, Wang WJ, Gomez-Lievano A, Wang H, Gao Y, Kopel H, Bausch-Jurken M, Patterson-Lomba O, Mu F, Wu

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2. "Treatment Patterns and FLT3 Mutation Testing Among Patients with Acute Myeloid Leukemia in China: A Retrospective Observational Study." Gong B, Cheng LJ, Young CH, Krishnan P, Wang Y, Wei H, Zhou C, Wei S, Li Y, Fang Q, Zhong J, Wu EQ, Mi Y, Wang J. *Therapeutics and Clinical Risk Management*. 2024/02/08; 20:59-73. doi: 10.2147/TCRM.S434556.
  3. "Treatment Patterns and Resource Use After Osimertinib Discontinuation in Patients with EGFR + Metastatic NSCLC." Marrett E, Kwong WJ, Song J, Manceur A, Sendhill S, Wu E. *Oncology and Therapy*. 2024 09; 12(3):549-563. doi: 10.1007/s40487-024-00292-5. E-pub 2024/07/20.
  4. "Treatment Patterns and Adverse Event-Related Hospitalization Among Patients with Epidermal Growth Factor Receptor (EGFR)-Mutated Metastatic Non-small Cell Lung Cancer After Treatment with EGFR Tyrosine Kinase Inhibitor and Platinum-Based Chemotherapy Regimens," Marrett E, Kwong WJ, Xie J, Manceur AM, Sendhil SR, Wu E, Ionescu-Ittu R, Subramanian J. *Drugs – Real World Outcomes*. 2023 09. E-pub ahead of print; doi: 10.1007/s40801-023-00383-1.
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  6. "Treatment Patterns and Healthcare Resource Use in Medicare Beneficiaries with Parkinson's Disease," Song Y, E JY, Guo T, Sasane R, Arcona S, Keshava N, Wu E. *ClinicoEconomics and Outcomes Research*. 2023 08; 15:631-643. E-pub ahead of print 2023/08/08; doi: 10.2147/ceor.S422023.
  7. "Real-world Outcomes Associated With Poly(ADP-ribose) Polymerase Inhibitor Monotherapy Maintenance in Patients With Primary Advanced Ovarian Cancer," Chan JK, Liu J, Song J, Xiang C, Wu E, Kalilani L, Hurteau JA, Thaker PH. *American Journal of Clinical Oncology*. 2023 07; 46(7):314-322. E-pub ahead of print 2023/04/28; doi: 10.1097/COC.0000000000001010.
  8. "The impact of achieving and maintaining near-complete or complete skin clearance on patient quality of life in moderate-to-severe psoriasis," Ryan C, Puig L, Zema C, Thompson EH, Yang M, Wu E, Bensimon A, Huang X, Joshi AD, Elewski B. *Journal of the American Academy of Dermatology*. 2023 01; 88(1):169-172. doi: 10.1016/j.jaad.2021.12.032.
  9. "Health-care resource use and costs associated with diabetic and idiopathic gastroparesis: A claims analysis of the first 3 years following the diagnosis of gastroparesis," Chen YJ, Tang W, Ionescu-Ittu R, Ayyagari R, Wu E, Huh SY, Parkman HP. *Neurogastroenterology & Motility*. 2022 09; 34(9):e14366. doi: 10.1111/nmo.14366.
  10. "Chronic Myeloid Leukemia: Part I-Real-World Treatment Patterns, Healthcare Resource Utilization, and Associated Costs in Later Lines of Therapy in the United States," Atallah EL, Maegawa R, Latremouille-Viau D, Rossi C, Guérin A, Wu EQ, Patwardhan P. *Journal of Health Economics and Outcomes Research*. 2022 08; 9(2):19-29. doi: 10.36469/001c.36975.

11. “The Economic Burden of Eosinophilic Gastritis and Eosinophilic Enteritis in the United States,” Woolley M, Cook EE, Mu F, Betts KA, Billmyer E, Yim E, Chen J, Wu EQ. *Advances in Therapy*. 2022 08; 39(8):3547-3559. doi: 10.1007/s12325-022-02202-5.
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13. “Advancing the development of real-world data for healthcare research in China: challenges and opportunities,” Zhong J, Zhang J, Fang H, Liu L, Xie J, Wu E. *BMJ Open*. 2022 07; 12(7): e063139. doi: 10.1136/bmjopen-2022-063139.
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16. Surgical Treatment Patterns, Healthcare Resource Utilization, and Economic Burden in Patients with Tenosynovial Giant Cell Tumor Who Underwent Joint Surgery in the United States. Lin F, Kwong WJ, Shi S, Pivneva I, Wu EQ, Abraham JA. *Journal of Health Economics and Outcomes Research*. 2022 Mar 4;9(1):68-74. Doi: 10.36469/jheor.2022.32485. eCollection 2022.
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29. Treatment patterns and outcomes in patients with myelodysplastic syndromes treated with hypomethylating agents: a SEER-Medicare analysis. Stein EM, Bonifacio G, Latremouille-Viau D, Shi S, Guerin A, Wu EQ, Sadek I, Cao X. *Leukemia & Lymphoma*. 2021 Jun;62(6):1411-1421. doi: 10.1080/10428194.2020.1869959. E-pub 2021 Jan 11.
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39. “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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175. Predictors of complete response following disease recurrence in gastrointestinal stromal tumor (GIST) patient: A retrospective patient chart review analysis. Conley AP, Guerin A, Sasane M, Gauthier G, Schwiep FA, Keir CH, Magestro M, Wu EQ. 2013 ASCO Annual Meeting, Chicago, IL, May 31–Jun 4, 2013.
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187. Impact of Chronic Constipation Severity on the Risk of Developing Colorectal Cancer and Benign Neoplasm. Guérin A, Mody R, Fok B, Wu EQ, Lasch K, Talley NJ. Digestive Disease Week, Orlando, FL, May 18–21, 2013.
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  195. Characteristics of patients with chronic myelogenous leukemia in chronic phase switched to nilotinib or dasatinib as second-line therapy. Macalalad AR, Chen L, Guerin A, Luo J, Wu EQ, Griffin JD. 54th Annual Meeting of the American Society of Hematology, Atlanta, GA, Dec 8–11, 2012.
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202. Risk differences in short-term radiographic progression following early response to adalimumab plus methotrexate vs. methotrexate alone. Van Vollenhoven R, Shaw JW, Cifaldi MA, Signorovitch JE, Wu EQ, Samuelson TM, Faust E, Emery P. Annual Scientific Meeting of the American College of Rheumatology and Association of Rheumatology Health Professionals 2012, Washington, DC, Nov 9–14, 2012.
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207. HbA1c reduction associated with initial versus sequential combination therapy with pioglitazone (PIO) and dipeptidyl peptidase-4 inhibitors (DPP4i) in patients with type 2 diabetes mellitus (T2DM). Bron M, Chen K, Ayyagari R, Sharma H, Wu EQ. ISPOR 15th Annual European Congress, Berlin, Germany, Nov 3–7, 2012.
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221. Outcomes of switching to adalimumab vs. continuing methotrexate in patients with moderate to severe psoriasis stratified by initial response to methotrexate. Reich K, Sundaram M,



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