

WEI GAO, PH.D.
Vice President

Direct: 617 425 8347
Fax: 617 425 8001
wei.gao@analysisgroup.com

111 Huntington Avenue
14th Floor
Boston, MA 02199

Dr. Gao specializes in developing innovative statistical methodologies and applying them to the study of clinical and economic outcomes in a broad range of disease areas. He has led and implemented analyses across entire product lifecycles, from early-phase clinical trials to post-market real-world evidence generation. Dr. Gao has particular expertise in retrospective data and clinical trial data analysis, health economics modeling, indirect treatment comparisons, predictive analytics, meta-analyses, individualized medicine, and statistical genetics. His research has supported the launches of several pharmaceutical products and has been widely published in leading peer-reviewed journals, including *The New England Journal of Medicine*, *JAMA*, *Nature Genetics*, *Nature Communications*, and the *American Journal of Respiratory and Critical Care Medicine*. He has presented his work at multiple statistical and health care conferences.

EDUCATION

2015 Ph.D., biostatistics, Boston University
2010 M.S., biostatistics, George Washington University
2008 B.S., information and computing science, Fudan University

PROFESSIONAL EXPERIENCE

2015–Present Analysis Group, Inc.
 Vice President (2023–Present)
 Manager (2019–2022)
 Associate (2015–2018)

2010-2015 Boston University/Framingham Heart Study, Pulmonary Research Center
 Research Assistant

2013 AstraZeneca
 Summer Intern

2010 The George Washington University/National Minority Quality Forum
 Senior Research Assistant

2009 The Rock Creek Group
 R Programmer Intern

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Mostaghimi, A., **Gao, W.**, Ray, M., Bartolome, L., Wang, T., Carley, C., Done, N., and Swallow, E., 2023. Trends in Prevalence and Incidence of Alopecia Areata, Alopecia Totalis, and Alopecia

- Universalis Among Adults and Children in a US Employer-Sponsored Insured Population. *JAMA Dermatology*, 159(4), pp.411-418.
2. **Gao, W.**, Mostaghimi, A., Gandhi, K., Done, N., Ray, M., Signorovitch, J., Swallow, E., Carley, C., Wang, T. and Sikirica, V., 2023. Patient Characteristics Associated with All-Cause Healthcare Costs of Alopecia Areata in the United States. *Journal of Medical Economics*, 26(1), pp.441-444.
 3. Desai, N.R., Sutton, M.B., Xie, J., Fine, J.T., **Gao, W.**, Owens, A.T., and Naidu, S.S., 2023. Clinical Outcomes, Resource Utilization, and Treatment Over the Disease Course of Symptomatic Obstructive Hypertrophic Cardiomyopathy in the United States. *The American Journal of Cardiology*, 192, pp.16-23.
 4. Mowitz, M.E., **Gao, W.**, Sipsma, H., Zuckerman, P., Wong, H., Ayyagari, R. and Sarda, S.P., 2022. Burden of Comorbidities and Healthcare Resource Utilization Among Medicaid-Enrolled Extremely Premature Infants. *Journal of Health Economics and Outcomes Research*, 9(2), pp.147-155.
 5. Mowitz, M.E., **Gao, W.**, Sipsma, H., Zuckerman, P., Wong, H., Ayyagari, R., Sarda, S.P. and Siffel, C., 2022. Long-term burden of respiratory complications associated with extreme prematurity: An analysis of US Medicaid claims. *Pediatrics & Neonatology*, 63(5), pp.503-511.
 6. Beck, D., Winzenborg, I., **Gao, W.**, Mostafa, N.M., Chiuve, S.E., Owens, C. and Shebley, M., 2022. Interdisciplinary model-informed drug development for extending duration of elagolix treatment in patients with uterine fibroids. *British Journal of Clinical Pharmacology*, 88(12), pp.5257-5268.
 7. Mostaghimi, A., Gandhi, K., Done, N., Ray, M., **Gao, W.**, Carley, C., Wang, T., Swallow, E. and Sikirica, V., 2022. All-cause health care resource utilization and costs among adults with alopecia areata: A retrospective claims database study in the United States. *Journal of Managed Care & Specialty Pharmacy*, 28(4), pp.426-434.
 8. Garcia-Foncillas, J., Bokemeyer, C., Italiano, A., Keating, K., Paracha, N., Fellous, M., Marian, M., Fillbrunn, M., **Gao, W.**, Ayyagari, R. and Lassen, U., 2022. Indirect Treatment Comparison of Larotrectinib versus Entrectinib in Treating Patients with TRK Gene Fusion Cancers. *Cancers*, 14(7), p.1793.
 9. Owens, A.T., Sutton, M.B., **Gao, W.**, Fine, J.T., Xie, J., Naidu, S.S. and Desai, N.R., 2022. Treatment Changes, Healthcare Resource Utilization, and Costs Among Patients with Symptomatic Obstructive Hypertrophic Cardiomyopathy: A Claims Database Study. *Cardiology and Therapy*, 11(2), pp.249-267.
 10. Mittal, M., Yang, M., Shah, M., **Gao, W.**, Carley, C. and Sherman, B.W., 2021. Impact of Medication Adherence on Healthcare Resource Utilization, Work Loss, and Associated Costs in a Privately Insured Employed Population Treated With Adalimumab in the United States. *Journal of Occupational and Environmental Medicine*, 63(10), p.e724-731.
 11. Jain, S.S., Li, S.S., Xie, J., Sutton, M.B., Fine, J.T., Edelberg, J.M., **Gao, W.**, Spertus, J.A. and Cohen, D.J., 2021. Clinical and economic burden of obstructive hypertrophic cardiomyopathy in the United States. *Journal of Medical Economics*, 24(1), pp.1115-1123.
 12. Beck, D., Winzenborg, I., **Gao, W.**, Mostafa, N.M., Noertersheuser, P., Chiuve, S.E., Owens, C. and Shebley, M., 2021. Integrating real-world data and modeling to project changes in femoral neck bone mineral density and fracture risk in premenopausal women. *Clinical and Translational Science*, 14(4), pp.1452-1463.
 13. **Gao, W.**, Muston, D., Monberg, M., McLaurin, K., Hettle, R., Szamreta, E., Swallow, E., Zhang, S., Kalemaj, I., Signorovitch, J. and McQueen, R.B., 2020. A Critical Appraisal and Recommendations for Cost-Effectiveness Studies of Poly (ADP-Ribose) Polymerase Inhibitors in Advanced Ovarian Cancer. *Pharmacoeconomics*, 38, pp.1201-1218.
 14. Muston, D., Hettle, R., Monberg, M., McLaurin, K.K., **Gao, W.**, Swallow, E., Zhang, S., Kalemaj, I.,

- Signorovitch, J. and Moore, K., 2020. Cost-Effectiveness of Olaparib as a Maintenance Treatment for Women with Newly Diagnosed Advanced Ovarian Cancer and BRCA1/2 Mutations in the United States. *Gynecologic Oncology*, 159(2), pp.491-497.
15. Kilpatrick, R.D., Chiuvè, S.E., Leslie, W.D., Wegrzyn, L.R., **Gao, W.**, Yang, H., Soliman, A.M., Snabes, M.C., Koenigsberg, S., Zhong, J. and Xiang, C., 2020. Estimating the Effect of Elagolix Treatment for Endometriosis on Postmenopausal Bone Outcomes: A Model Bridging Phase III Trials to an Older Real-World Population. *JBMR plus*, 4(12), p.e10401.
 16. Bensimon, A.G., Zhou, Z.Y., Jenkins, M., Song, Y., **Gao, W.**, Signorovitch, J., Krepler, C., Scherrer, E., Wang, J. and Aguiar-Ibáñez, R., 2020. An Economic Evaluation of Pembrolizumab Versus Other Adjuvant Treatment Strategies for Resected High-Risk Stage III Melanoma in the USA. *Clinical Drug Investigation*, 40, pp.629-643.
 17. Mowitz, M.E., Mangili, A., Han, L., Ayyagari, R., **Gao, W.**, Wang, J., Zhao, J. and Sarda, S.P., 2020. Prevalence of Chronic Respiratory Morbidity, Length of Stay, Inpatient Readmissions, and Costs among Extremely Preterm Infants with Bronchopulmonary Dysplasia. *Expert Review of Pharmacoeconomics & Outcomes Research*, 21(5), pp.1117-1125.
 18. Cao, X., Tang, D., Ratto, B., Poole, A., Ravichandran, S., Jin, L., **Gao, W.**, Swallow, E. and Vogelzang, N.J., 2020. Real-World Clinical Outcomes of Pazopanib Immediately after Discontinuation of Immunotherapy for Advanced Renal Cell Carcinoma. *Clinical Genitourinary Cancer*, 18(1), pp.e37-e45.
 19. Mowitz, M.E., Ayyagari, R., **Gao, W.**, Zhao, J., Mangili, A. and Sarda, S.P., 2019. Health Care Burden of Bronchopulmonary Dysplasia Among Extremely Preterm Infants. *Frontiers in Pediatrics*, 7, p.510.
 20. Vo, P., **Gao, W.**, Zichlin, M.L., Fuqua, E., Fadli, E., Aguirre Vazquez, M., Tarancón, T., Mahieu, N., Maier-Peuschel, M., Rossi, S. and Naclerio, M., 2019. Migraine-Related Healthcare Resource Use in the Emergency Department Setting: A Panel-Based Chart Review in France, Germany, Italy, And Spain. *Journal of Medical Economics*, 22(9), pp.960-966.
 21. Vo, P., **Gao, W.**, Zichlin, M.L., Fuqua, E., Fadli, E., Aguirre Vazquez, M., Tarancón, T., Mahieu, N., Maier-Peuschel, M., Rossi, S. and Naclerio, M., 2019. Real-World Healthcare Resource Utilization Related to Migraine Treatment Failure: A Panel-Based Chart Review in France, Germany, Italy, And Spain. *Journal of Medical Economics*, 22(9), pp.953-959.
 22. Batt, K., **Gao, W.**, Ayyagari, R., Deschaseaux, C., Vashi, P.B., Yao, Z., Wang, Y., Kessabi, S. and Klamroth, R., 2019. Matching-Adjusted Indirect Comparisons of Annualized Bleeding Rate and Utilization of BAY 94-9027 Versus Three Recombinant Factor VIII Agents for Prophylaxis in Patients with Severe Hemophilia A. *Journal of Blood Medicine*, 10, p.147-159.
 23. Bensimon, A.G., Zhou, Z.Y., Jenkins, M., Song, Y., **Gao, W.**, Signorovitch, J., Krepler, C., Liu, F.X., Wang, J. and Aguiar-Ibáñez, R., 2019. Cost-Effectiveness of Pembrolizumab for the Adjuvant Treatment of Resected High-Risk Stage III Melanoma in The United States. *Journal of Medical Economics*, 22(10), pp.981-993.
 24. Song, J., Ma, Q., **Gao, W.**, Cong, Z., Xie, J., Zimmerman, Z., Belton, L., Franklin, J. and Palmer, S., 2019. Matching-Adjusted Indirect Comparison of Blinatumomab vs. Inotuzumab Ozogamicin for Adults with Relapsed/Refractory Acute Lymphoblastic Leukemia. *Advances in Therapy*, 36, pp.950-961.
 25. Song, J., **Gao, W.**, Xie, J. and Tiwana, S., 2019. Letter to the Editor Regarding: Indirect Treatment Comparison of Inotuzumab Ozogamicin Versus Blinatumomab for Relapsed or Refractory Acute Lymphoblastic Leukemia, Proskorovsky et al. *Adv Ther* (2019); 36 (8): 2147–2160. *Advances in Therapy*, 37, pp.955-957.
 26. Stein, E.M., Yang, M., Guerin, A., **Gao, W.**, Galebach, P., Xiang, C.Q., Bhattacharyya, S., Bonifacio,

- G. and Joseph, G.J., 2018. Assessing Utility Values for Treatment-Related Health States of Acute Myeloid Leukemia in the United States. *Health and Quality of Life Outcomes*, 16(1), p.193.
27. Fu, Y., Han, S., Wang, L., **Gao, W.**, Wu, E., Cao, X. and Wang, J., 2018. Comparison of Characteristics of Benign Prostatic Hyperplasia (BPH) Patients Treated with Finasteride and Alpha Blocker Combination Therapy Versus Alpha Blocker Monotherapy in China: An Analysis of Electronic Medical Record Data. *Advances in Therapy*, 35(8), pp.1191-1198.
 28. Wyss, A.B., Sofer, T., Lee, M.K., Terzikhan, N., Nguyen, J.N., Lahousse, L., Latourelle, J.C., Smith, A.V., Bartz, T.M., Feitosa, M.F., **Gao, W.**, ..., London, J.S., 2018. Multiethnic Meta-Analysis Identifies Ancestry-Specific and Cross-Ancestry Loci for Pulmonary Function. *Nature Communications*, 9(1), p.2976.
 29. Kantor, D., Johnson, K., Vieira, M.C., Signorovitch, J., Li, N., **Gao, W.**, Koo, V., Duchesneau, E. and Herrera, V., 2018. Real-World Persistence with Fingolimod for the Treatment of Multiple Sclerosis: A Systematic Review and Meta-Analysis. *Journal of the Neurological Sciences*, 388, pp.168-174.
 30. Jackson, V.E., Latourelle, J.C., Wain, L.V., Smith, A.V., Grove, M.L., Bartz, T.M., Obeidat, M.E., Province, M.A., **Gao, W.**, Qaiser, B., ..., London, J.S., 2018. Meta-Analysis of Exome Array Data Identifies Six Novel Genetic Loci for Lung Function. *Wellcome Open Research*, 2018, 3:4.
 31. Wyss, A.B., Sofer, T., Lee, M.K., Terzikhan, N., Nguyen, J.N., Lahousse, L., Latourelle, J.C., Smith, A.V., Bartz, T.M., Feitosa, M.F., **Gao, W.**, ..., London J.S., 2017. Multiethnic Meta-Analysis Identifies New Loci for Pulmonary Function. *bioRxiv*, <https://doi.org/10.1101/196048>.
 32. Araki, T., Putman, R.K., Hatabu, H., **Gao, W.**, Dupuis, J., Latourelle, J.C., Nishino, M., Zazueta, O.E., Kurugol, S., Ross, J.C. and San José Estépar, R., 2016. Development and Progression of Interstitial Lung Abnormalities in the Framingham Heart Study. *American Journal of Respiratory and Critical Care Medicine*, 194(12), pp.1514-1522.
 33. Ho, J.E., **Gao, W.**, Levy, D., Santhanakrishnan, R., Araki, T., Rosas, I.O., Hatabu, H., Latourelle, J.C., Nishino, M., Dupuis, J. and Washko, G.R., 2016. Galectin-3 is Associated with Restrictive Lung Disease and Interstitial Lung Abnormalities. *American Journal of Respiratory and Critical Care Medicine*, 194(1), pp.77-83.
 34. Putman, R.K., Hatabu, H., Araki, T., Gudmundsson, G., **Gao, W.**, Nishino, M., Okajima, Y., Dupuis, J., Latourelle, J.C., Cho, M.H. and El-Chemaly, S., 2016. Association between Interstitial Lung Abnormalities and All-Cause Mortality. *Journal of the American Medical Association (JAMA)*, 315(7), pp.672-681.
 35. Araki, T., Nishino, M., **Gao, W.**, Dupuis, J., Hunninghake, G.M., Murakami, T., Washko, G.R., O'Connor, G.T. and Hatabu, H., 2016. Normal Thymus in Adults: Appearance on CT and Associations with Age, Sex, BMI and Smoking. *European Radiology*, 26(1), pp.15-24.
 36. Kliment, C.R., Araki, T., Doyle, T.J., **Gao, W.**, Dupuis, J., Latourelle, J.C., Zazueta, O.E., Fernandez, I.E., Nishino, M., Okajima, Y. and Ross, J.C., 2015. A Comparison of Visual and Quantitative Methods to Identify Interstitial Lung Abnormalities. *BMC Pulmonary Medicine*, 15(1), p.134.
 37. Araki, T., Nishino, M., **Gao, W.**, Dupuis, J., Putman, R.K., Washko, G.R., Hunninghake, G.M., T O'Connor, G. and Hatabu, H., 2015. Pulmonary Cysts Identified on Chest CT: Are They Part of Aging Change or of Clinical Significance. *Thorax*, 70(12), pp.1156-1162.
 38. Hansen, J.G., **Gao, W.**, Dupuis, J., O'Connor, G.T., Tang, W., Kowgier, M., Sood, A., Gharib, S.A., Palmer, L.J., Fornage, M. and Heckbert, S.R., 2015. Association of 25-Hydroxyvitamin D Status and Genetic Variation in the Vitamin D Metabolic Pathway with FEV₁ in the Framingham Heart Study. *Respiratory Research*, 16(1), p.81.
 39. Araki, T., Nishino, M., Zazueta, O.E., **Gao, W.**, Dupuis, J., Okajima, Y., Latourelle, J.C., Rosas, I.O., Murakami, T., O'Connor, G.T. and Washko, G.R., 2015. Paraseptal Emphysema: Prevalence and

- Distribution on CT and Association with Interstitial Lung Abnormalities. *European Journal of Radiology*, 84(7), pp.1413-1418.
40. Araki, T., Nishino, M., **Gao, W.**, Dupuis, J., Washko, G.R., Hunninghake, G.M., Murakami, T., O'Connor, G.T. and Hatabu, H., 2015. Anterior Mediastinal Masses in the Framingham Heart Study: Prevalence and CT Image Characteristics. *European Journal of Radiology Open*, 2, pp.26-31.
 41. Tang, W., Kowgier, M., ..., **Gao, W.**, ..., Cassano, P.A., 2014. Large-scale Genome-Wide Association Studies and Meta-Analyses of Longitudinal Change in Adult Lung Function. *PLoS ONE*, 9(7), p.e100776.
 42. Loth, D.W., Artigas, M.S., ..., **Gao, W.**, ..., London, S.J., 2014. Genome-Wide Association Analysis Identifies Six New Loci Associated with Forced Vital Capacity. *Nature Genetics*, 46(7), pp.669-677.
 43. Wang, S., **Gao, W.**, Ngwa, J., Allard, C., Liu, C.T. and Cupples, L.A., 2014, June. Comparing Baseline and Longitudinal Measures in Association Studies. *BMC Proceedings* (Vol. 8, No. 1, p. 1). BioMed Central.
 44. London, S.J., **Gao, W.**, Gharib, S.A., Hancock, D.B., Wilk, J.B., House, J.S., Gibbs, R.A., Muzny, D.M., Lumley, T., Franceschini, N. and North, K.E., 2014. ADAM19 and HTR4 Variants and Pulmonary Function Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium Targeted Sequencing Study. *Circulation: Cardiovascular Genetics*, 7(3), pp.350-358.
 45. Manichaikul, A., Hoffman, E.A., Smolonska, J., **Gao, W.**, Cho, M.H., Baumhauer, H., Budoff, M., Austin, J.H., Washko, G.R., Carr, J.J. and Kaufman, J.D., 2014. Genome-Wide Study of Percent Emphysema on Computed Tomography in the General Population. The Multi-Ethnic Study of Atherosclerosis Lung/SNP Health Association Resource Study. *American Journal of Respiratory and Critical Care Medicine*, 189(4), pp.408-418.
 46. Hunninghake, G.M., Hatabu, H., Okajima, Y., **Gao, W.**, Dupuis, J., Latourelle, J.C., Nishino, M., Araki, T., Zazueta, O.E., Kurugol, S. and Ross, J.C., 2013. MUC5B Promoter Polymorphism and Interstitial Lung Abnormalities. *New England Journal of Medicine*, 368(23), pp.2192-2200.
 47. Coglianese, E.E., Larson, M.G., Vasani, R.S., Ho, J.E., Ghorbani, A., McCabe, E.L., Cheng, S., Fradley, M.G., Kretschman, D., **Gao, W.**, O'Connor, G., Wang J.T., Januzzi J.J., 2012. Distribution and Clinical Correlates of the Interleukin Receptor Family Member Soluble ST2 in the Framingham Heart Study. *Clinical Chemistry*, 58(12), pp.1673-1681.
 48. Chen, A.H., **Gao, W.**, Gao, Y.Y., 2008. Research on Nonlinear Dynamics of a Vibration-Isolated Body. *China Mechanical Engineering*, 19(9), pp.1022-1026.
 49. Li, X., **Gao, W.**, 2007. The Application of the Parallel Multistep Hybrid Method to the Numerical Solution for a Class of Index-2 Differential Algebraic Equations. *Journal of Central South University of Forestry & Technology*, 27(3), pp.163-166.
 50. He, Y., Shao, F., Li, S.Q., **Gao, W.**, 2006. On Left C-U-Liberal Semi-Groups. *Czechoslovak Mathematical Journal*, 56(131), pp.1085-1108.

CONFERENCE PRESENTATIONS AND SPEAKING ENGAGEMENTS

1. "Real-world outcomes among men with nonmetastatic castration-sensitive biochemical recurrence after definitive therapy with short PSA doubling time receiving early secondary treatment." Freedland, S.J., **Gao, W.**, Lax, A., Yang, H., Ramaswamy, K., Russell, D., Hong, A., Ivanova, J.I. American Urological Association (AUA) Annual Meeting. Chicago, IL, April 28-May 1, 2023.
2. "Real-world (RW) prevalence of adverse events (AEs) among patients with metastatic castration-sensitive prostate cancer (mCSPC)." Swami, U., Xie, B., Young, C., Ramaswamy, K., El-Chaar, N., **Gao, W.**, Yang, H., Wang, Y., Mucha, L. American Society of Clinical Oncology (ASCO) 2023

- Genitourinary Cancers Symposium. Francisco, CA, February 16-18, 2023.
3. "Treatment patterns and overall survival (OS) in metastatic castration-sensitive prostate cancer (mCSPC) from 2010 to 2019." Freedland, S.J., Sandin, R., Agarwal, N., Tagawa, S.T., Klaassen, Z., Bitting, R.L., Ramaswamy, K., Emir, B., Bland, C., Hong, A., Shi, L., Yang, H., **Gao, W.**, Song, W., George, D.J. Western Section of the American Urological Association (AUA) Annual Meeting. Kauai, Hawaii, October 30–November 4, 2022.
 4. "Treatment patterns and overall survival (OS) in metastatic castration-sensitive prostate cancer (mCSPC) from 2010 to 2019." George, D.J., Sandin, R., Agarwal, N., Tagawa, S.T., Klaassen, Z., Bitting, R.L., Ramaswamy, K., Emir, B., Bland, C., Hong, A., Shi, L., Yang, H., **Gao, W.**, Song, W., Freedland, S.J. European Society for Medical Oncology (ESMO) Congress 2022. Paris, France, September 9–13, 2022.
 5. "Epidemiology and treatment patterns in pediatric patients with eosinophilic esophagitis in the USA: Results from a retrospective claims study." Goodwin, B., **Gao, W.**, Boules, M., Desai, N.K., Jiang, J., Huang, Y. Digestive Disease Week (DDW) 2022. May 21–24, 2022.
 6. "Real-world treatment patterns among US adolescents with alopecia areata: A retrospective claims analysis." Done, N., Ray, M., **Gao, W.**, Wang, T., Carley, C., Bartolome, L., Swallow, E., Mostaghimi, A. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2022 Annual International Meeting. National Harbor, Maryland, May 15-18, 2022.
 7. "Real-world treatment patterns among US adults with alopecia areata: A retrospective claims analysis." Mostaghimi, A., Ray, M., Swallow, E., **Gao, W.**, Done, N., Carley, C., Bartolome, L., Signorovitch, J. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2022 Annual International Meeting. National Harbor, Maryland, May 15-18, 2022.
 8. "Prevalence and incidence of alopecia areata in the US employer-sponsored insured population: A real-world data analysis." Ray, M., Swallow, E., **Gao, W.**, Done, N., Carley, C., Wang, T., Mostaghimi, A. Academy of Managed Care Pharmacy (AMCP) Annual Meeting. Chicago, IL, March 29–April 1, 2022
 9. "Race and therapy use in metastatic castration-sensitive prostate cancer patients." Freedland, S.J., Agarwal, N., Ramaswamy, K., Sandin, R., Russell, D., Hong, A., Yang, H., **Gao, W.**, Hagan, K., George, D.J. Journal of the Advanced Practitioner in Oncology (JADPRO). October 7–17, 2021.
 10. "Real-world utilization of advanced therapies by metastatic site and age among patients with metastatic castration-sensitive prostate cancer (mCSPC): a Medicare database analysis." George, D.J., Agarwal, N., Ramaswamy, K., Sandin, R., Russell, D., Hong, A., Emir, B., Yang, H., **Gao, W.**, Hagan, K., Freedland, S.J. European Society for Medical Oncology (ESMO) Congress 2021. September 16-21, 2021.
 11. "Treatment patterns and overall survival (OS) in metastatic castration-sensitive prostate cancer (mCSPC) from 2006 to 2019." Freedland, S.J., Sandin, R., Tagawa, S.T., Klaassen, Z., Bitting, R.L., Ramaswamy, K., Emir, B., Bland, C., Hong, A., Yang, H., **Gao, W.**, Song, W., George, D.J. European Society for Medical Oncology (ESMO) Congress 2021. September 16-21, 2021.
 12. "Matching-adjusted indirect comparison for treatment of NTRK fusion cancer with larotrectinib versus entrectinib." Garcia-Foncillas, J., Bokemeyer, C., Italiano, A., Keating, K., Paracha, N., Fellous, M., Marian, M., Fillbrunn, M., **Gao, W.**, Ayyagari, R., Lassen, U. European Society for Medical Oncology (ESMO) Congress 2021. Sept 16-21, 2021.
 13. "Real-world utilization of advanced therapies and racial disparity among patients with metastatic castration-sensitive prostate cancer (mCSPC): a Medicare database analysis." Freedland, S.J., Agarwal, N., Ramaswamy, K., Sandin, R., Russell, D., Hong, A., Yang, H., **Gao, W.**, Hagan, K., George, D.J. American Society of Clinical Oncology (ASCO) 2021 Annual Meeting. June 4-8, 2021.
 14. "Health resource utilization and costs among patients with symptomatic obstructive hypertrophic

- cardiomyopathy who received treatment.” Owens, A.T., Sutton, M.B., **Gao, W.**, Li, S.S., Fine, J.T., Xie, J., Naidu, S.S., Desai, N.R. Academy of Managed Care Pharmacy (AMCP) Nexus 2021. Denver, Colorado, October 19-22, 2021.
15. “Respiratory illness of extreme prematurity: clinical characteristics and prevalence of comorbidities from an analysis of the US Medicaid database.” Siffel, C., **Gao, W.**, Sipsma, H., Zuckerman, P., Wong, H., Ayyagari, R., Sarda, S.P., Mowitz, M.E. 20th international congress on pediatric pulmonology (CIPP XX). Virtual, June 24-27, 2021.
 16. “Healthcare resource utilization associated with prematurity: an analysis of US Medicaid data.” Siffel, C., **Gao, W.**, Sipsma, H., Zuckerman, P., Wong, H., Ayyagari, R., Sarda, S.P., Mowitz, M.E. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2021. Virtual, May 17-20, 2021.
 17. “Differences in all-cause health care costs of alopecia areata in the United States by patient subgroups: a latent class approach.” Done, N., Ray, M., Gandhi, K., Swallow, E., **Gao, W.**, Sikirica, V., Carley, C., Mostaghimi, A. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2021. May 17-20, 2021.
 18. “Clinical and economic burden of obstructive hypertrophic cardiomyopathy in the United States.” Jain, S.S., Li, S.S., Xie, J., Sutton, M.B., Fine, J.T., Edelberg, J.M., **Gao, W.**, Spertus, J.A., Cohen, D.J. American College of Cardiology (ACC)’s 70th Annual Scientific Session. Virtual, May 15-17, 2021.
 19. “Healthcare resource utilization and all-cause costs of alopecia areata in an adolescent population in the United States.” Ray, M., Gandhi, K., Swallow, E., **Gao, W.**, Done, N., Carley, C., Sikirica, V., Mostaghimi, A. Academy of Managed Care Pharmacy (AMCP) 2021. Virtual, April 13-14, 2021.
 20. “Clinical characteristics associated with respiratory illness of extreme prematurity: an analysis of the Medicaid database.” Mowitz, M.E., **Gao, W.**, Sipsma, H., Zuckerman, P., Wong, H., Ayyagari, R., Sarda, S.P., Siffel, C. Hot Topics in Neonatology. Virtual, December 6-10, 2020.
 21. “Clinical characteristics and healthcare resource utilization associated with respiratory illness of extreme prematurity: an analysis of the US Medicaid database.” Mowitz, M.E., **Gao, W.**, Sipsma, H., Zuckerman, P., Wong, H., Ayyagari, R., Romanus, D., Sarda, S.P. 8th Congress of the European Academy of Paediatric Societies (EAPS). Virtual, October 16-19, 2020.
 22. “Cost-effectiveness analysis of olaparib as a maintenance monotherapy for patients with newly diagnosed advanced ovarian cancer and a BRCA1/2 mutation: A United States payer perspective.” Muston, D.R.G., Monberg, M.J., McLaurin, K., Sackeyfio, A., Hettle, R., Signorovitch, J., Swallow, E., **Gao, W.**, Zhang, S., Kalemaj, I., Moore, K. Society of Gynecologic Oncology (SGO) 2020 Annual Meeting on Women's Cancer (Abstract available online).
 23. “Projection of long-term overall survival among patients with newly diagnosed advanced ovarian cancer and a BRCA1/2 mutation.” Muston, D.R.G., Monberg, M.J., McLaurin, K., Sackeyfio, A., Hettle, R., Signorovitch, J., Swallow, E., **Gao, W.**, Zhang, S., Kalemaj, I., Moore, K. Society of Gynecologic Oncology (SGO) 2020 Annual Meeting on Women's Cancer (Abstract available online).
 24. “Predictors of high healthcare utilisers among patients with chronic hypoparathyroidism – application of machine learning methodology.” Chen, K., **Gao, W.**, Wang, Y., Swallow, E. International Society for Pharmacoeconomics and Outcomes Research Europe (ISPOR-EU) 2019 Meeting. Copenhagen, Denmark, November 2-6, 2019.
 25. “The real-world burden of migraine treatment failure: a panel-based chart review in France, Germany, Italy, and Spain.” Vo, P., Swallow, E., Wu, E.Q., **Gao, W.**, Zichlin, M.L., Fuqua, E., Tarancón, T., Maier-Peuschel, M., Naclerio, M., Mahieu, N., Rossi, S., Ritrovato, D., Aguirre Vazquez, M. 19th Congress of the International Headache Society. Dublin, Ireland, September 5-8, 2019.
 26. “Migraine-related healthcare resource use in the emergency department setting: a panel-based chart

- review in France, Germany, Italy and Spain.” Vo, P., Swallow, E., Wu, E.Q., **Gao, W.**, Zichlin, M.L., Fuqua, E., Tarancón, T., Maier-Peuschel, M., Naclerio, M., Mahieu, N., Rossi, S., Ritrovato, D., Aguirre Vazquez, M. 19th Congress of the International Headache Society, Dublin, Ireland, September 5-8, 2019.
27. “Real-world outcomes in stable originator biologic-treated adult patients who stayed on the therapy versus those who switched to biosimilar: a retrospective chart review study in Europe.” Gibofsky, A., Skup, M., Yang, M., **Gao, W.**, Doctor, T. European League Against Rheumatism (EULAR) 2019 Annual European Congress of Rheumatology. Madrid, Spain, June 12-15, 2019.
28. “Matching adjusted indirect comparisons: recommendation for the selection of baseline characteristics used for matching.” **Gao, W.**, Patterson-Lomba, O., Signorovitch, J., Wu, E.Q., Ayyagari, R. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2019 Annual International Meeting. New Orleans, Louisiana, May 18-22, 2019.
29. “Arm-to-arm weighting and variance adjustment in matching-adjusted indirect comparisons.” Patterson-Lomba, O., **Gao, W.**, Signorovitch, J., Wu, E.Q., Ayyagari, R. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2019 Annual International Meeting. New Orleans, Louisiana, May 18-22, 2019.
30. “Projection of long-term overall survival among patients with newly diagnosed advanced ovarian cancer and a BRCA1/2 mutation.” Muston, D., Moore, K.N., Monberg, M.J., McLaurin, K., Sackeyfio, A., Hettle, R., Signorovitch, J., Swallow, E., **Gao, W.**, Zhang, S., Kalemaj, I., Ramsey, S.D. American Society of Clinical Oncology (ASCO) 2019 Annual Meeting Online Abstract. May, 2019.
31. “Real-world clinical outcomes of pazopanib immediately following immunotherapy discontinuation for the treatment of advanced renal cell carcinoma.” Cao, X., Tang, D., Ratto, B.E., Poole, A., Ravichandran, S., Jin, L., **Gao, W.**, Swallow, E., Vogelzang, N.J. American Society of Clinical Oncology (ASCO) 2019 Genitourinary Cancers Symposium. San Francisco, California, February 14-16, 2019.
32. “A retrospective claims analysis of hospital length of stay, readmissions, and costs through 1 year corrected age among extremely preterm infants with and without chronic respiratory morbidity and bronchopulmonary dysplasia.” Sarda, P.S., Mangili, A., Han, L., Ayyagari, R., **Gao, W.**, Wang, J., Zhao, J., Mowitz, E.M. American Academy of Pediatrics (AAP) 2018 National Conference & Exhibition. Orlando, Florida, November 3-6, 2018.
33. “Hospital length of stay, readmissions, and healthcare costs through 1 year for extremely preterm infants with and without bronchopulmonary dysplasia: a retrospective claims analysis.” Sarda, P.S., Mangili, A., Han, L., Ayyagari, R., **Gao, W.**, Wang, J., Zhao, J., Mowitz, E.M. 7th Congress of the European Academy of Paediatric Societies (EAPS). Paris, France, October 30-November 3, 2018.
34. “Prevalence of 1-year chronic respiratory morbidity among extremely preterm infants and related hospital length of stay, readmissions, and healthcare costs: a retrospective claims analysis.” Sarda, P.S., Mangili, A., Han, L., Ayyagari, R., **Gao, W.**, Wang, J., Zhao, J., Mowitz, E.M. 7th Congress of the European Academy of Paediatric Societies (EAPS). Paris, France, October 30-November 3, 2018.
35. “Matching adjusted indirect comparisons: sensitivity analyses and graphical diagnostics.” **Gao, W.**, Rybkin, V., Yao, Z.W., Hellstern, M., and Signorovitch, J. 2018 Joint Statistical Meetings (JSM). Vancouver, Canada, July 28-August 2, 2018.
36. “Indirect treatment comparison of blinatumomab vs inotuzumab ozogamicin for treating adult patients with relapsed or refractory acute lymphoblastic leukemia receiving zero or one prior salvage therapy.” Song, J., Ma, Q., **Gao, W.**, Cong, Z., Xie, J., Zimmerman, Z., Belton, L., Franklin, J., Palmer, S. 23rd Congress of European Hematology Association (EHA). Stockholm, Sweden, June 14-17, 2018.
37. “Indirect treatment comparison of blinatumomab versus inotuzumab ozogamicin for the treatment of

- adult patients with relapsed or refractory acute lymphoblastic leukemia receiving zero or one prior salvage therapy.” Song, J., Ma, Q., **Gao, W.**, Cong, Z., Xie, J., Zimmerman, Z., Belton, L., Franklin, J., Palmer, S. American Society of Clinical Oncology (ASCO) 2018 Annual Meeting. Chicago, Illinois, June 1-5, 2018.
38. “Matching-adjusted indirect comparisons (MAICs) of efficacy and consumption of BAY 94-9027 versus three recombinant factor VIII (RFVIII) for prophylaxis of severe hemophilia A.” **Gao, W.**, Deschaseaux, C., Vashi, P.B., Kessabi, S., Ayyagari, R. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2018 Annual International Meeting. Baltimore, Maryland, May 19-23, 2018.
 39. “Matching-adjusted indirect treatment comparison (MAIC) of blinatumomab (BLIN) compared with inotuzumab ozogamicin (INO) for the treatment of adult patients with relapsed or refractory acute lymphoblastic leukemia (R/R ALL) receiving zero or one prior salvage therapy (S0/S1).” Song, J., Ma, Q., **Gao, W.**, Xie, J., Zimmerman, Z., Belton, L., Franklin, J., Palmer, S. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2018 Annual International Meeting. Baltimore, Maryland, May 19-23, 2018.
 40. “Prevalence of 1-year chronic respiratory morbidity among extremely preterm infants: a retrospective claims analysis.” Sarda, P.S., Mangili, A., Han, L., Ayyagari, R., **Gao, W.**, Wang, J., Zhao, J., Mowitz, E.M. Pediatric Academic Societies (PAS) 2018 Annual Meeting. Toronto, Canada, May 5-8, 2018.
 41. “Matching-adjusted indirect comparison (MAIC): sensitivity analyses and graphical diagnostics.” Signorovitch, J., **Gao, W.**, Rybkin, V., Yao, Z., Hellstem, M. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2017 Annual European Congress. Glasgow, Scotland, November 4-8, 2017.
 42. “Indirect comparison of sodium zirconium cyclosilicate versus patiomer in the treatment of hyperkalemia through 48 hours.” Betts, K.A., Woolley, J.M., Song, Y., **Gao, W.**, Wu, E.Q. American Society of Nephrology (ASN) Kidney Week 2017. New Orleans, Louisiana, October 31-November 5, 2017.
 43. “Healthcare burden of bronchopulmonary dysplasia among extremely preterm infants in the United States.” Mowitz, E.M., Sarda, P.S., Mangili, A., Ayyagari, R., **Gao, W.**, Zhao, J. Joint European Neonatal Societies (jENS) 2nd Congress. Venice, Italy, October 31-November 4, 2017.
 44. “Characterisation and burden of 1-year chronic respiratory morbidity among extremely preterm infants: a retrospective claims analysis.” Mowitz, E.M., Mangili, A., Krusenstiern, L., Ayyagari, R., **Gao, W.**, Wang, J., Zhao, J., Sarda, P.S. Joint European Neonatal Societies (jENS) 2nd Congress. Venice, Italy, October 31-November 4, 2017.
 45. “Co-occurrence and burden of complications of prematurity among extremely preterm infants in the United States.” Mowitz, E.M., Ayyagari, R., **Gao, W.**, Zhao, J., Mangili, A., Sarda, P.S. American Academy of Pediatrics (AAP) 2017 National Conference & Exhibition. Chicago, Illinois, September 16-19, 2017.
 46. “Consistency of clinical response to recombinant human parathyroid hormone (1-84) (rhPTH[1-84]) among patients with hypoparathyroidism.” Chen, K., Li, N., **Gao, W.**, Zhao, J., Signorovitch, J. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2017 Annual International Meeting. Boston, MA, May 20-24, 2017. (*Top 10% research poster presentations*)
 47. “Assessing utility values for treatment-related health states of acute myeloid leukemia in the United States.” Stein, M.E., Yang, M., **Gao, W.**, Galebach, P., Xiang, Q.C., Bhattacharyya, S., Bonifacio, G., Joseph, J.G. International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 2017 Annual International Meeting. Boston, MA, May 20-24, 2017.
 48. “Burden of morbidities among extremely preterm infants in the United States.” Mowitz, E.M.,

- Ayyagari, R., **Gao, W.**, Zhao, J., Mangili, A., Sarda, S.P. Pediatric Academic Societies (PAS) 2017 Annual Meeting. San Francisco, California, May 6-9, 2017.
49. "Real-world persistence with fingolimod for the treatment of multiple sclerosis: a systematic review and meta-analysis." Kantor, D., Johnson, K., Vieira, M.C., Signorovitch, J., Li, N., **Gao, W.**, Koo, V., Duchesneau, E., Herrera, V. Academy of Managed Care Pharmacy (AMCP) Nexus 2016. Prince Georges, Maryland, October 3-6, 2016. (*Bronze Medal Award*)
 50. "Development and progression of interstitial lung abnormalities in the Framingham Heart Study." Araki, T., Hatabu, H., **Gao, W.**, Dupuis, J., Latourelle, J., Nishino, M., Zazueta, O., Kurugol, S., Ross, J.C., San Jose Estepar, R. and Schwartz, D.A. American Thoracic Society (ATS) 2016 International Conference. San Francisco, California, May 13-18, 2016.
 51. "Mortality and undiagnosed interstitial lung abnormalities." Putman, R.K., Hatabu, H., Araki, T., Gudmundsson, G., **Gao, W.**, Nishino, M., Okajima, Y., Dupuis, J., Latourelle, J., Cho, M.H. and El-Chemaly, S. American Thoracic Society (ATS) 2016 International Conference. San Francisco, California, May 13-18, 2016.
 52. "General framework for rare variant analysis: gene-environment interaction and multiple trait analysis in family samples." **Gao, W.**, O'Connor, G., and Dupuis, J. 2014 Joint Statistical Meetings (JSM). Boston, MA, August 2-7, 2014.
 53. "Sequence kernel association test in family samples with repeated measurements or multiple traits." **Gao, W.**, O'Connor, G.T., and Dupuis, J. Boston University SPH Research Day. Boston, Massachusetts, November 13, 2013.
 54. "Sequence kernel association test and gene-environment interaction tests in family samples with repeated phenotype measurements or multiple traits". **Gao, W.**, O'Connor, G.T., and Dupuis, J. Boston University GSI Research Symposium. Boston, MA, November 5 2013. (*Featured presentation*)
 55. "Sequence kernel association test in family samples with repeated phenotype measurements or multiple traits." **Gao, W.**, O'Connor, G.T., and Dupuis, J. International Genetic Epidemiology Society (IGES) 2013 Annual Conference. Chicago, Illinois, September 11-19, 2013. (*Selected platform presentation*)
 56. "Genetic variation in vitamin D metabolic genes and associations with longitudinal FEV1 in the Framingham Heart Study." Hansen, J.G., O'Connor, G.T., Dupuis, J., **Gao, W.** and Cassano, P.A. American Thoracic Society (ATS) 2013 International Conference. Philadelphia, Pennsylvania, May 17-22, 2013.
 57. "MUC5B promoter polymorphism (rs35705950) is predictive of interstitial lung abnormalities in the general population." Hatabu, H., Okajima, Y., **Gao, W.**, Dupuis, J., Latourelle, J., Nishino, M., Kurugol, S., Ross, J., Estepar, R., Hunninghake, G.M. and Murphy, E. American Thoracic Society (ATS) 2013 International Conference. Philadelphia, Pennsylvania, May 17-22, 2013.
 58. "Gene expression and IgE dysregulation in the Framingham Heart Study." Kretschman, D., Joehanes, R., **Gao, W.**, Latourelle, J., Dupuis, J., Munson, P., Levy, D. and O'Connor, G. American Thoracic Society (ATS) 2013 International Conference. Philadelphia, Pennsylvania, May 17-22, 2013.
 59. "Rate of FEV1 decline in healthy adults: defining the upper limit of normal in the Framingham Heart Study." Kretschman, D., **Gao, W.**, Dupuis, J., Latourelle, J. and O'Connor, G. American Thoracic Society (ATS) 2012 International Conference. San Francisco, California, May 18-23, 2012.

LANGUAGES

Chinese (native), English (fluent)