# Hui Shao *M.D., Ph.D. Updated as of11/21/2024*

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**Education:**

# Sept 2017-Jul 2019 The CDC Steven M. Teutsch Preventive Effectiveness (PE) Fellow

#  *Division of Diabetes Translation, CDC,USA*

# August 2012 ~ March 2017 PhD, Health Service Research and Economics

# *Tulane University, USA*

# September 2010 ~ June 2012 MHA, Health Management and Policy

#  *Shandong University, China*

# September 2005 ~ June 2010 MD, Medicine/Endocrinology

#  *Shandong University, China*

**Professional Experiences:**

# Dec 2022-present Associate Professor, Hubert Department of Global Health, Rollins School of Public Health, Emory University

# Dec 2022-present Associate Professor, Department of Family and Preventive Medicine, School of Medicine, Emory University

# Apr 2023-present Director of Academics, China Health Policy and Management Society (CHPAMS).

# Jan 2023- Present VA-affiliated Researcher, Atlanta Veterans Affairs (VA)

# Oct 2021-present Adjunct Professor, Section of Endocrinology, Tulane University School of Medicine

# Oct 2017-present Adjunct Professor, Department of Global Health Management and Policy, School of Public Health and Tropical Medicine, Tulane University

# Jun 2022-present Director, Data Analysis Working Group (DAWG), the DiCAYA network

# Aug 2019-Nov 2022 Assistant Professor, Department of Pharmaceutical Outcomes and Policy, College of Pharmacy, University of Florida

# Aug 2012-August 2017 Research Assistant, Tulane University, USA

# May 2016-Sept 2016 Healthcare Informatics Consultant, Blue Cross and Blue Shield of Louisiana, USA

# Jan 2011-June2012 Health Policy Consultant, Health Bureau of Jinan, China

# Sep 2010-June 2012 Research Assistant, Shandong University, China

# Sep 2009-January 2010 Clinical Resident, Transportation Hospital of Jinan, China

# Jan 2010- June 2010 Healthcare Assistant, Community Health Center, Shandong, China

# HONORS AND AWARDS

# *Sept 2022*  International Society for Cardiology and Cardiovascular Medicine

# Best Researcher Award

# *Mar 2022* Annals of Internal Medicine

# Top Reviewer in 2022

# *Jun 2021* American Diabetes Association

# The President Selected Abstract

# *May 2021* International Society of Pharma economics and Outcomes Research (ISPOR)

# “Top 5” abstract awards

# *Apr 2020* Centers for Disease Control and Prevention

# HERG Kaafee Billah Award

# *May 2019* Centers for Disease Control and Prevention

# Early Career Innovator Award

# *Jun 2018* American Diabetes Association

# Travelling Award

# *Jan 2017* Patient Access Network (PAN) challenge

# Honored Award

# *Jun 2016* International Society of Pharmacoeconomics and Outcomes Research (ISPOR)

# Best Student Podium

# *Jun 2014* Academy Health Annual Research Meeting, San Diego

# Best Student Poster

# *Feb 2013* School of Public Health and Tropical Medicine, Tulane University

# Dean’s Award for Research

# Grants and Contracts

**Ongoing Research Support**

# ****NIDDK R01DK133465 Shao (Contact PI) /Guo 09/01/2022 - 08/30/2026****

***Building Equity Improvement into Quality Improvement in the use of New Glucose lowering Drugs through Individualized Drug Value Assessment in People with Diabetes***

**\*note, after I moved from UF to Emory in 2023, my contact PI title was transferred to Dr. Guo and I remained as MPI, and my actual role in the project remains unchanged.**

**Role: Principal Investigator**

# ****U18DP006711 Shao (Contact PI)/ Phillips 09/01/2022 - 08/31/2027****

***Assessing Barriers and Facilitators for Participating Structured Lifestyle Intervention and its Real-world Effectiveness and Cost-Effectiveness among US Veterans***

**Role: Principal Investigator**

**CDC U18DP006512 Bian/ Shao (MPI)/ Guo/ Shenkman 9/01/2020-8/30/2025**

***Assessing the Burden of Diabetes in Children, Adolescents and Young Adults (DiCAYA)***

**Role: Principal Investigator**

**CDC U18DP006523 Shi (PI) 09/30/2020-09/29/2025**

***Louisiana Experiment to Address Diabetes: Zero-Dollar Copayment (LEAD-ZDC) for Improving Disease Management***

**Role: Consortium PI at Emory**

**NIH Aim-AHEAD 1OT2OD032581 Gian-Gabriel Garcia(PI) 09/17/2023 – 09/16/2024**

***Design and Assessment of Fair Algorithms for Counterfactual Explanations to Generate Digital Role Models for Patients with Type-2 Diabetes and Hypertension***

**Role: Consortium PI at Emory**

**CDC Quarells, Rakale C(PI) from MSM 10/01/2024-9/30/2029**

*Diabetes Self-Management & Family Risk Reduction (Family DSMES)*

**Role: Consortium PI at Emory**

**NIH U54HD113159 Lizheng Shi (PI) 11/30/2023-11/29/2028**

***Southern Center for Maternal Health Equity***

**Role: Co-investigator**

**NIH U54GM104940 Lizheng Shi (PI) 01/30/2024-01/29/2025**

***Advancing the Use of Electronic Health Records for Research***

**Role: Co-investigator**

**Grant Under Review**

**NIDDK R01 Hui Shao (contact PI/ Mohammed K Ali) 5 years**

***From Evidence to Policy: Tailoring GLP-1RA Coverage for Optimal Impact and Equity***

**Role: Principal Investigator**

**NIDDK T32 Mary Beth Weber/ Hui Shao (MPI) 5 years**

Team Science for Diabetes Prevention and Management

**Role: Principal Investigator**

**NIDDK R01 Naykky Ospina Sign(PI) from UF 5 years**

***Assessing the risk of Thyroid Cancer associated with GLP-1 Use***

**Role: Consortium PI at Emory**

**VA Mentoring Grant Migdal, Alexandra (PI) 5 years**

***Developing prediction algorithms for NASH and NAFLD using machine learning***

**Role: Co-mentor**

**NIDDK R01 (resubmission) Fayfman, Maya (PI) 5 years**

***Assessing the effectiveness of the CARE-D-Foot-Nav program***

**Role: Co-I**

**Grant Under Preparation**

**NIA R01 Shao (PI) 5 years**

***Assessing the role of treatment goal in delaying the onset of ADRD among MCI patients***

**Role: Principal investigator**

**NIMHD R01 Shao (PI), Mohammed K Ali 5 years**

***Developing a Microsimulation Model for Social Determinants of Health and Multimorbidity***

**Role: Principal investigator**

**NIDDK R01 Harding, Jessica (PI) 5 years**

***Mapping diabetes control and treatment use in the US using EPIC COSMOS***

**Role: Co-I**

**Completed Research Support**

**CDC 20IPA2008335DPG Shao (PI) 7/01/2020-6/30/2022**

***External advisor on microsimulation and machine-learning methods for program evaluation***

**Role: Principal Investigator**

**University of Florida PROSPER award Shao(Contact PI) /DeRemer 1/23/2020-1/22/2021**

***Comparing Cardiovascular Benefits between GLP-1RA and SGLT2 Inhibitor Agents***

**Role: Principal Investigator**

**Sanofi AWD09175 Shao (PI) 7/01/2020-1/31/2021**

***Simulating Long-Term Outcomes for iGlarlixi using BRAVO Diabetes Model***

**Role: Principal Investigator**

**Health Action International APW19129 Luo (PI) 10/01/2019-9/30/20**

***Quantify insulin use and need in the USA 2020-2030.***

**Role: Co-Investigator**

**OCHSNER Health System Shi (PI) 8/01/17-7/30/19**

***Diabetes Risk Prediction Model: A Demonstration Project using Electronic Medical Records and Insurance Claims.***

**Role: Consultant**

**CDC 00HCUCGB-2018-23240 Chen (PI) 4/01/2019-3/31/2020**

*Effectiveness and cost-effectiveness of glucose-lowering medications in type 2 diabetes.*

**Role: Consultant**

**PHS-CDC NCCDPHP 200-2016-92270 Hoerger(PI) 8/01/2017-7/30/2021**

*Developing and Validating two Computer Simulation Models to Predict the Long-term Health and Economic Outcomes of Interventions for Preventing Diabetes and its Complications.*

**Role: Consultant**

**Teaching Experiences:**

**Course Director**

* **The Microsimulation Academy** *for Preventive Effectiveness Fellow at the* **US CDC**

 *2023 Fall*

* *Applied Data Analysis and Interpretation*

 2022 Fall, 2021 Fall, 2020 Fall

* *Principal of Pharmacoeconomics*

2022 Fall, 2021 Fall, 2020 Fall

* *Intro to Pharmaceutical Outcomes and Policy*

 2022 Spring, 2021 Spring, 2020 Spring

* *Patient Care 3- Asthma Module*

 *2022 Fall, 2021 Fall, 2020 Fall, 2019 Fall*

* *Patient Care 8- Hypertension Module* 2022 Spring
* *Patient Care 5- Diabetes Module* 2022 Spring

# MEntoring Experience

**Postdoctoral Fellows**

**Hamed Kianmehr 2019-2022**

**Jieun Lee 2023-Present**

**Qiaochu Xue 2023-Present**

**PhD Students (ongoing)**

**Piaopiao Li 2020-Present**

**Sumaya Abuloha 2021-Present**

**Yehua Wang 2020-Present**

**Xinyu Zhang 2020-Present**

**Dennis Xuan 2020-Present**

**Erica Kocher 2024- Present**

**Liz Staton 2024-Present**

# ****Doctoral Dissertation Committee (completed)****

# **Yilu Lin04/1/2022**

# **Aram Babcock 10/21/2021**

# **Yushi Huang 3/10/2024**

# ****Master Thesis Committee (completed)****

# **Dawei Guan 4/21/2022**

# **Yahang Zhang 3/11/2021**

**Khalid Alkhuzam 3/17/2023**

**Alaa Alshehri 3/17/2023**

**Shu Niu 3/17/2023**

# PEER-REVIEWED PUBLICATIONS

# (\*Bold: first/corresponding author)

1. Li P, Li Z, Staton E, Umpierrez G, Davis G,Pasquel F, **Shao H**, and Francisco J. Pasquel. “GLP-1 Receptor Agonist and SGLT2 Inhibitor Prescribing in People With Type 1 Diabetes.” **JAMA** 332, no. 19 (November 19, 2024): 1667–69. <https://doi.org/10.1001/jama.2024.18581>.
2. Li P, Spector E, lkhuzam K, Patel R, Donahoo W, Bost S, Lyu T, **Shao H**. “Developing an Automated Algorithm for Identification of Children and Adolescents with Diabetes Using Electronic Health Records from the OneFlorida+ Clinical Research Network.” Diabetes, Obesity and Metabolism n/a, no. n/a (September 30, 2024). <https://doi.org/10.1111/dom.15987>.
3. Guo J, Tang H, Shao H, Lu Y, Shi L, Fonseca V et al. “Sodium-Glucose Cotransporter 2 Inhibitors and the Risk of Parkinson Disease in Real-World Patients with Type 2 Diabetes.” Diabetes, Obesity and Metabolism 26, no. 12 (December 2024): 5727–36. <https://doi.org/10.1111/dom.15943>.
4. Alaa A, Guan D, Li P, Zhang Y, Ghayee H, Jiao T, and **Shao H**. “Trends in Utilization Patterns of Newer Glucose-Lowering Drugs in US Adults with Type 2 Diabetes and a History of Coronary Heart Disease or Heart Failure: 2005–2019.” Primary Care Diabetes 18, no. 5 (October 1, 2024): 561–63. <https://doi.org/10.1016/j.pcd.2024.07.003>.
5. Tang H, Lu Y, Donahoo W, Shao H, Shi L, Fonseca V, and Guo J. “Glucagon-Like Peptide-1 Receptor Agonists and Risk for Suicidal Ideation and Behaviors in U.S. Older Adults With Type 2 Diabetes.” **Annals of Internal Medicine** 177, no. 8 (August 20, 2024): 1004–15. <https://doi.org/10.7326/M24-0329>.
6. \*Li P, Alkhuzam K, Brown J, Zhang Y, Jiao T, Guo J, Umpierrez G, Narayan V, Kulshreshtha A, Pasquel F, Ali M, **Shao H**. "Association Between Low Cognitive Performance and Diabetes-related Health Indicators across Racial and Ethnic Groups in Adults with Diabetes". Diabetes, Obesity and Metabolism. (Jun-2024): https://doi.org/10.1111/dom.15715
7. \*Li P, Kianmehr H, Guan D, Kulshreshtha A, Narayan V, Ali M, Umpierrez G, Hu X, Fonseca V, Shi L, **Shao H.** "Renal Function as an Effect Modifier of Intensive Glucose Control in Delaying Cognitive Function Decline among Individuals with Type 2 Diabetes: A Revisit to the ACCORD MIND Trial". Diabetes, Obesity and Metabolism. (JULY-2024)
8. **Shao H**, Shi L, Fonseca V, Alsaleh A, Gill J, and Nicholls C. “An Exploratory Analysis of the Cost-Effectiveness of Insulin Glargine 300 Units/ML versus Insulin Glargine 100 Units/ML over a Lifetime Horizon Using the BRAVO Diabetes Model.” Diabetic Medicine 41, no. 5 (2024): e15303. https://doi.org/10.1111/dme.15303.
9. \*Jafari E, Abuloha S, Alshehri A, Eljilany I, Aroza R, Guo J, and **Shao H**. “Racial/Ethnic Disparities in Use of Angiotensin II Receptor Type 2/4 Stimulatory Vs. Inhibitory Antihypertensive Among Hypertensive Adults in the USA.” Journal of Racial and Ethnic Health Disparities, March 18, 2024. https://doi.org/10.1007/s40615-024-01970-w.
10. Li Y, Tang H, Guo Y, Shao H, Kimmel S, Bian J, Schatz D, and Guo J. “Sodium-Glucose Cotransporter-2 Inhibitors and Incidence of Atrial Fibrillation in Older Adults with Type 2 Diabetes: A Retrospective Cohort Analysis.” Frontiers in Pharmacology 15 (May 23, 2024). https://doi.org/10.3389/fphar.2024.1379251.
11. Luth E, Brennan C, Hurley S, Phongtankuel V, Prigerson H, Ryvicker M, Shao H, and Zhang Y. “Hospice Readmission, Hospitalization, and Hospital Death Among Patients Discharged Alive from Hospice.” JAMA Network Open 7, no. 5 (May 16, 2024): e2411520. https://doi.org/10.1001/jamanetworkopen.2024.11520.
12. \*Jiao T, Kianmehr H, Lin Y, Li P, Ospina N, Ghayee H, Ruzieh M, **Shao H**. “Some Patients with Type 2 Diabetes May Benefit from Intensive Glycaemic and Blood Pressure Control: A Post-Hoc Machine Learning Analysis of ACCORD Trial Data.” Diabetes, Obesity and Metabolism 26, no. 4 (April 2024): 1502–9. https://doi.org/10.1111/dom.15453.
13. \*Hirsch A, Conderino S, Crume T, Liese A, Bellatorre A, Bendik S, Divers J, et al. “Using Electronic Health Records to Enhance Surveillance of Diabetes in Children, Adolescents and Young Adults: A Study Protocol for the DiCAYA Network.” BMJ Open 14, no. 1 (January 1, 2024): e073791. https://doi.org/10.1136/bmjopen-2023-073791.
14. \*Wang G, Chen W, Chang S, Zhang T, Shao H, Guo J, and Lo-Ciganic W. “Association between First-Line Antidepressant Use and Risk of Dementia in Older Adults: A Retrospective Cohort Study.” BMC Geriatrics 23, no. 1 (December 8, 2023): 825. https://doi.org/10.1186/s12877-023-04475-z.
15. \*Wang Y, Jiao T, Muschett M, Brown J, Guo S, Kulshreshtha A, Zhang Y, Winterstein A, and **Shao H.** “Associations Between Postdischarge Care and Cognitive Impairment–Related Hospital Readmissions for Ketoacidosis and Severe Hypoglycemia in Adults With Diabetes.” **Diabetes Care** 47, no. 2 (2024): 225–32.
16. Lorissa P, Yang W, Shao H, Wang Y, and Zhang P. “Medical Expenditure Trajectory and HbA1c Progression Prior to and after Clinical Diagnosis of Type 2 Diabetes in a Commercially Insured Population in the USA.” BMJ Open Diabetes Research and Care 11, no. 6 (November 1, 2023): e003397. <https://doi.org/10.1136/bmjdrc-2023-003397>.
17. \*Niu S, Alkhuzam K, Guan D, Jiao T, Shi L, Fonseca V, **Shao H**. “5-Year Simulation of Diabetes-Related Complications in People Treated with Tirzepatide or Semaglutide versus Insulin Glargine.” Diabetes, Obesity and Metabolism n/a, no. n/a (October 22, 2023). <https://doi.org/10.1111/dom.15332>.
18. \*Li P, Lyu T, Alkhuzam K, Spector E, **Shao H**. “The Role of Health System Penetration Rate in Estimating the Prevalence of Type 1 Diabetes in Children and Adolescents Using Electronic Health Records.” **Journal of the American Medical Informatics Association**, October 9, 2023, ocad194. <https://doi.org/10.1093/jamia/ocad194>.
19. \*Guan D, Lewis M, Li P, Zhang Y, **Shao H**. “Incremental Burden on Health-Related Quality of Life, Health Service Utilization and Direct Medical Expenditures Associated with Cognitive Impairment among Non-Institutionalized People with Diabetes Aged 65 Years and Older.” Diabetes, Obesity and Metabolism n/a, no. n/a (October 3, 2023). <https://doi.org/10.1111/dom.15313>.
20. \*Wang G, Svensson M, Shao H, Park H. “Cost-Effectiveness Analysis of Monthly, 3-Monthly, and 6-Monthly Long-Acting Injectable and Oral Paliperidone in Adults with Schizophrenia.” Journal of Managed Care & Specialty Pharmacy 29, no. 8 (August 2023): 884–95. <https://doi.org/10.18553/jmcp.2023.29.8.884>.
21. \*Shao Y, Shao H, Fonseca V, and Shi L. “External Validation of the BRAVO Diabetes Model Using the EXSCEL Clinical Trial Data.” Diabetes Therapy 14, no. 9 (September 1, 2023): 1577–84. <https://doi.org/10.1007/s13300-023-01441-1>.
22. \*Lin Y, Shao H, Fonseca V, Anderson A, Shi L. “A Prediction Model on Incident Chronic Kidney Disease among Individuals with Type 2 Diabetes in the United States.” Diabetes, Obesity and Metabolism 25, no. 10 (October 2023): 2862–68. <https://doi.org/10.1111/dom.15177>.
23. Hoerger T, Hilscher R,Neuwahl S, Kaufmann M, Shao H, Laxy M, Cheng Y, et al. “A New Type 2 Diabetes Microsimulation Model to Estimate Long-Term Health Outcomes, Costs, and Cost-Effectiveness.” **Value in Health**, May 24, 2023. <https://doi.org/10.1016/j.jval.2023.05.013>.
24. **Shao H**, Shi L, Fonseca V, Alsaleh A, Gill J, and Nicholls C. “Cost-Effectiveness Analysis of Once-Daily Insulin Glargine 300 U/ML versus Insulin Degludec 100 U/ML Using the BRAVO Diabetes Model.” Diabetic Medicine n/a, no. n/a (n.d.): e15112. <https://doi.org/10.1111/dme.15112>.
25. Lin Y, Shao H, Fonseca V, Anderson A, Batuman V, and Shi L. “A Prediction Model on Incident ESKD among Individuals with T2D and CKD.” Journal of Diabetes and Its Complications 37, no. 4 (April 1, 2023): 108450. https://doi.org/10.1016/j.jdiacomp.2023.108450.
26. Tang S, Shao H, Ali M, and Zhang P. “Recommended and Prevalent Use of Glucagon-like Peptide-1 Receptor Agonists and Sodium–Glucose Cotransporter-2 Inhibitors in a National Population-Based Sample.” **Annals of Internal Medicine**, February 28, 2023. https://doi.org/10.7326/M22-3051.
27. Tang H, Shao H, Shaaban E, Yang K, Brown J, Anton S, Wu Y, et al. “Newer Glucose-Lowering Drugs and Risk of Dementia: A Systematic Review and Meta-Analysis of Observational Studies.” Journal of the American Geriatrics Society n/a, no. n/a. Accessed April 10, 2023. https://doi.org/10.1111/jgs.18306.
28. Lin Y, Shao H, Fonseca V, and Shi L. “Exacerbation of Financial Burden of Insulin and Overall Glucose-Lowing Medications among Uninsured Population with Diabetes.” Journal of Diabetes 15, no. 3 (2023): 215–23. https://doi.org/10.1111/1753-0407.13360.
29. Lin Y, Shao H, Fonseca V, Anderson A, Batuman V, and Shi L. “A Prediction Model of CKD Progression among Individuals with Type 2 Diabetes in the United States.” Journal of Diabetes and Its Complications 37, no. 3 (March 1, 2023): 108413. https://doi.org/10.1016/j.jdiacomp.2023.108413.
30. Zhang Y, Shao H, Zhang M, and Li J. “Healthcare Utilization and Mortality After Hospice Live Discharge Among Medicare Patients With and Without Alzheimer’s Disease and Related Dementias.” Journal of General Internal Medicine, January 17, 2023. https://doi.org/10.1007/s11606-023-08031-8.
31. Wang Y, Zhang P, Shao H, Andes L, and Imperatore G. “Medical Costs Associated With Diabetes Complications in Medicare Beneficiaries Aged 65 Years or Older With Type 1 Diabetes.” **Diabetes Care** 46, no. 1 (November 18, 2022): 149–55. https://doi.org/10.2337/dc21-2538.
32. Li P, Zhang P, Guan D, Guo J, Zhang Y, Pavkov M, Bullard K, and **Shao H**. “Changes in Racial and Ethnic Disparities in Glucose-Lowering Drug Utilization and Glycated Haemoglobin A1c in US Adults with Diabetes: 2005-2018.” Diabetes, Obesity and Metabolism 25, no. 2 (2023): 516–25. <https://doi.org/10.1111/dom.14894>.
33. **Shao H,** Shi L, Lin Y, and Fonseca V. “Using Modern Risk Engines and Machine Learning/Artificial Intelligence to Predict Diabetes Complications: A Focus on the BRAVO Model.” Journal of Diabetes and Its Complications 36, no. 11 (November 1, 2022): 108316. <https://doi.org/10.1016/j.jdiacomp.2022.108316>.
34. **Shao H,** Guo J, Laiteerapong N, Tang S, Fonseca V, Shi L, and Zhang P. “Lowering Hemoglobin A1c Level to Less than 6.0% in People with Type 2 Diabetes May Reduce Major Adverse Cardiovascular Events: A Bayesian’s Narrative.” Current Medical Research and Opinion 0, no. 0 (September 26, 2022): 1–2. <https://doi.org/10.1080/03007995.2022.2129234>.
35. Gu S, Hu S, Zhen X, Shi L, Shao H, Sun X, Dong H. “Comparison of Glucose-Lowering Drugs as Second-Line Treatment for Type 2 Diabetes: A Systematic Review and Meta-Analysis.” Journal of Clinical Medicine 11, no. 18 (January 2022): 5435. <https://doi.org/10.3390/jcm11185435>.
36. Wang Y, Zhang P, Shao H, Andes L, and Imperatore G. “Medical Costs Associated With Diabetes Complications in Medicare Beneficiaries Aged 65 Years or Older With Type 2 Diabetes.” ***Diabetes Care***, September 13, 2022, dc212151. <https://doi.org/10.2337/dc21-2151>.
37. **Shao H**, Guan D, Fonseca V, Shi L, Basu A, Pop-Busuim R, Ali M, and Brown J. “Economic Evaluation of the $35 Insulin Copay Cap Policy in Medicare and Its Implication for Future Interventions.” ***Diabetes Care***, September 12, 2022, dc221230. <https://doi.org/10.2337/dc22-1230>.
38. Kianmehr K, Guo J, Lin Y, Luo J, Cushman W, Shi L, Fonseca V, and **Shao H**. “A Machine Learning Approach Identifies Modulators of Heart Failure Hospitalization Prevention among Patients with Type 2 Diabetes: A Revisit to the ACCORD Trial.” Journal of Diabetes and Its Complications 36, no. 9 (September 1, 2022): 108287. <https://doi.org/10.1016/j.jdiacomp.2022.108287>.
39. **Shao H**, Alsaleh A, Dex T, Lew E, and Fonseca V. “Cost-Effectiveness of IGlarLixi Versus Premix BIAsp 30 in People with Type 2 Diabetes Suboptimally Controlled by Basal Insulin in the US.” Diabetes Therapy 13, no. 9 (September 1, 2022): 1659–70. <https://doi.org/10.1007/s13300-022-01300-5>.
40. Lin Y, Shao H, Shi L, Anderson A, and Fonseca V. “Predicting Incident Heart Failure among Patients with Type 2 Diabetes Mellitus: The DM-CURE Risk Score.” Diabetes, Obesity and Metabolism n/a, no. n/a. Accessed September 14, 2022. <https://doi.org/10.1111/dom.14806>.
41. **Shao H,** Guan D, Guo J, Shi L, Fonseca V, Brown J. “Projected Impact of the Medicare Part D Senior Savings Model (SSM) on Diabetes-Related Health and Economic Outcomes among Insulin Users Covered by Medicare.” ***Diabetes Care***, June 14, 2022, dc212601. https://doi.org/10.2337/dc21-2601.
42. Tang H, Shu Niu, Joshua Brown, Jingkai Wei, Shao H, Jiang Bian, and Guo J. “Newer Glucose-Lowering Drugs and Risk of Dementia: A Meta-Analysis of Cardiovascular Outcome Trials.” *Journal of the* American Geriatrics Society. June 1, 2022. <https://doi.org/10.1111/jgs.17895>.
43. Kianmehr H, Zhang P, Luo J, Guo J, Pavkov M, Bullard K, Gregg E, **Shao H**. “Potential Gains in Life Expectancy Associated With Achieving Treatment Goals in US Adults With Type 2 Diabetes.” ***JAMA Network Open*** 5, no. 4 (April 18, 2022): e227705. <https://doi.org/10.1001/jamanetworkopen.2022.7705>. **Altmetric Score: 315**
44. Park, Joohyun, Ping Zhang, Shao H, Michael Laxy, and Giuseppina Imperatore. “Selecting a Target Population for Type 2 Diabetes Lifestyle Prevention Programs: A Cost-Effectiveness Perspective.” *Diabetic Medicine* n/a, no. n/a (n.d.): e14847. https://doi.org/10.1111/dme.14847.
45. Song, Hyun Jin, Ji Haeng Heo, Debbie L. Wilson, Shao H, and Haesuk Park. “A National Catalog of Mapped Short-Form Six-Dimension Utility Scores for Chronic Conditions in the United States From 2010 to 2015.” *Value in Health* 0, no. 0 (March 30, 2022). https://doi.org/10.1016/j.jval.2022.02.011.
46. Spector E, Zhang Y, Guo Y, Bost S, Yang X, Prosperi M, Wu Y, Shao H, Bian J. Syndromic Surveillance Systems for Mass Gatherings: A Scoping Review. Int J Environ Res Public Health. 2022 Apr 13;19(8):4673. DOI: 10.3390/ijerph19084673.
47. **Shao H,** Kianmehr H, Guo J, Li P, Fonseca V, and Shi L. “Efficacy of IGlarLixi on 5-Year Risk of Diabetes-Related Complications: A Simulation Study.” *Journal of Diabetes and Its Complications* 36, no. 3 (March 1, 2022): 108132. https://doi.org/10.1016/j.jdiacomp.2022.108132.
48. **Shao H**, Li P, Guo J, Fonseca V, Shi L, and Zhang P. “Socioeconomic Factors Play a More Important Role than Clinical Needs in the Use of SGLT2 Inhibitors and GLP-1 Receptor Agonists in People With Type 2 Diabetes.” ***Diabetes Care*** 45, no. 2 (January 17, 2022): e32–33. https://doi.org/10.2337/dc21-1800.
49. Tew M, Willis M, Asseburg C, Shao H,..Clarke P. “Exploring Structural Uncertainty and Impact of Health State Utility Values on Lifetime Outcomes in Diabetes Economic Simulation Models: Findings from the Ninth Mount Hood Diabetes Quality-of-Life Challenge.” Medical Decision Making, December 15, 2021, 0272989X211065479. https://doi.org/10.1177/0272989X211065479.
50. Laxy M, Zhang P, **Shao H.** “Trends in Total and Out-of-Pocket Payments for Insulin Among Privately Insured U.S. Adults With Diabetes From 2005 to 2018.” ***Diabetes Care*** 44, no. 10 (August 4, 2021): e180–82. https://doi.org/10.2337/dc20-2529.
51. Li P, Patel R,..,**Shao H.** “The Diminishing Cost-Effectiveness of the Newer Glucose-Lowering Drug Classes in the United States: 2010-2018.” Current Medical Research and Opinion 0, no. ja (August 25, 2021): 1–1. https://doi.org/10.1080/03007995.2021.1971181.
52. Zhang Y, Bian J, Huo J, Yang S,Guo Y, **Shao H.** “Comparing the Downstream Costs and Healthcare Utilization Associated with the Use of Low-Dose Computed Tomography (LDCT) in Lung Cancer Screening in Patients with and without Alzheimer’s Disease and Related Dementias (ADRD).” Current Medical Research and Opinion 37, no. 10 (October 3, 2021): 1731–37. https://doi.org/10.1080/03007995.2021.1953972.
53. Ahmed M, Li P,Meece E. L, Bian J, **Shao H**. . “A Varied Approach to Left Ventricular Assist Device Follow-up Improves Cost-Effectiveness.” Current Medical Research and Opinion 0, no. ja (June 28, 2021): 1–1. https://doi.org/10.1080/03007995.2021.1948395.
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# Letters to the Editors

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4. **Shao H,** Shi L, Fonseca V. Comment on Segar et al. Machine Learning to Predict the Risk of Incident Heart Failure Hospitalization Among Patients With Diabetes: The WATCH-DM Risk Score. ***Diabetes Care*** 2019;42:2298–2306

# Conference Symposium Presentations:

# Shao H. SGLT2is and GLP-1RAs—Are They Worth It?

# The American Diabetes Association 81th Conference. June 24-28.

# Conference Podium Presentations:

1. \*Qiaochu Xue, Piaopiao Li, Ram Jagannathan, Francisco J. Pasquel, Guillermo E. Umpierrez, Lawrence Phillips, K.M.Venkat Narayan, Mohammed K Ali, Hui Shao. Genetic Variation in GLP-1R Modify the Risk of Hypoglycemia in Response to Intensive Glycemic Control in Adults with Type 2 Diabetes.The American Diabetes Association 84th Conference. June 20-24.
2. \*Qiaochu Xue, Piaopiao Li, Francisco J. Pasquel, Lawrence Phillips, Timothy Lash, Yan Sun, K.M. Venkat Narayan, Mohammed K Ali, Guillermo Umpierrez, Hui Shao. Modulation of Cardiorenal Benefits for GLP-1RAs Treatment by GLP1R Genetic Variants. The American Diabetes Association 84th Conference. June 20-24.
3. Yu Wang, Hui Shao, Giuseppina Imperatore, Christopher Holliday, Ping Zhang. Income-related disparities in medical expenditures in U.S. adults with diabetes. The American Diabetes Association 82th Conference. June 3-8.
4. Yao Ding, Lizheng Shi, Hui Shao. Trends in Total Payments, Net Payments, and Rebates for a 30-Day Supply of Glucose-Lowering Drugs (GLDs) from 2010–2017. The American Diabetes Association 82th Conference. June 3-8.
5. Wenxi Huang, Dawei Guan, Shu Niu, Mohammed K Ali, Yongkang Zhang, Jingchuan Guo, Hui Shao. Increasing Economic Returns of Structured Lifestyle Intervention Associated with Rising Costs of Treating Diabetes: 2010–2018. The American Diabetes Association 82th Conference. June 3-8.
6. Yehua Wang, Ping Zhang, Ruogu Fang, Joshua Brown, Jingchuan Guo, Tianze Jiao, Hui Shao. Associations between Post-discharge Care (PDC) and Cognitive Impairment–Related Hospital Readmissions for Ketoacidosis and Severe Hypoglycemia in Adults with Diabetes. The American Diabetes Association 82th Conference. June 3-8.
7. Hamed Kianmehr, Yilu Lin, Lizheng Shi, Vivian Fonseca, Jingchuan Guo, Hui Shao. Identify Effect Modulators of Intensive Glucose Control in Preventing Cognitive Function Decline among Individuals with Type 2 Diabetes: A Revisit to the ACCORD MIND Trial. The American Diabetes Association 82th Conference. June 3-8.
8. Shu Niu, Lizheng Shi, Vivian Fonseca, Hui Shao. Five-Year Simulation of Diabetes-Related Complications in Individuals Treated with Once-Weekly Tirzepatide and Semaglutide vs. Once-Daily Insulin Glargine. The American Diabetes Association 82th Conference. June 3-8.
9. Kianmehr H,..,Shao H. ADA Presidents’ Select Abstract Presentation: Potential Gains in Life Expectancy (LE) Associated with Achieving Treatment Goals in People with Type 2 Diabetes (T2D) in the U.S. The American Diabetes Association 81th Conference. June 24-28.
10. Shao H,..,Brown J. Projected Impact of the Medicare Part D Senior Savings Model (SSM) on Diabetes-Related Health and Economic Outcomes among Insulin Users Covered by Medicare. The American Diabetes Association 81th Conference. June 24-28.
11. Park J, Shao H,..,Imperatore P. Selecting Intervention Population for Lifestyle Program for Type 2 Diabetes Prevention (LPT2DP): A Cost-Effectiveness Perspective. The American Diabetes Association 81th Conference. June 24-28.
12. Hoerger T, Shao H,..,Zhang P. A New Type 2 Diabetes Microsimulation Model to Estimate Long-Term Health Outcomes, Costs, and Cost-Effectiveness. The American Diabetes Association 81th Conference. June 24-28.
13. DeRemer C,.., Shao H. Comparing Cardiovascular Benefits between GLP-1RA and SGLT2i as an Add-On to Metformin among U.S. Adults with Type 2 Diabetes (T2D). The American Diabetes Association 81th Conference. June 24-28.
14. Kianmehr H,..,Shao H. A Machine Learning Approach Identifies Modulators of Congestive Heart Failure Hospitalization Prevention among Patients with Type 2 Diabetes: A Revisit to the ACCORD Trial. The American Diabetes Association 81th Conference. June 24-28.
15. Li P,..,Shao. Trends in Racial and Ethnic Difference in Glucose-Lowering Medication (GLM) Use, Out of Pocket (OOP) Payment, and HbA1c Control in U.S. Adults with Diabetes, 2005-2018. The American Diabetes Association 81th Conference. June 24-28.
16. Huang S, Lo-Ciganic WH, Shao H. Cost-Effectiveness of Intensive VS. Moderate Hypertension Treatment in US Adults Age 65 and Older at High Risk of Atherosclerotic Cardiovascular Disease. The Virtual ISPOR 2021 Conference. May 17-20 in Montreal.
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19. Shao H, Greg E, Zhang P. Cost Effectiveness of the New 2018 ACP Glycemic Control Guideline among U.S. Adults with Type 2 Diabetes. The 79th annual conference of American Diabetes Association. June 6-12 , 2019 in San Francisco.
20. Zhou XL, Shao H, Greg E, Zhang P. What Has Contributed to the Increase in the National Spending on Antidiabetic Drugs: 2005-2016?The 79th annual conference of American Diabetes Association. June 6-12, 2019 in San Francisco.
21. Shao H, Zhang P. Simulation Results of CDC-RTI model and its implication on Treatment Superiority. The 9th Mount Hood Challenge Meeting, OCT 4-8, 2018 in Düsseldorf, German.
22. Shi L, Shao H, Yang S, Fonseca V. Estimating Quality of Life Decrements Due to Diabetes Complications in the United States. The 9th Mount Hood Challenge Meeting, OCT 4-8, 2018 in Düsseldorf, German.
23. Shao H, Lin J, Zhuo X, Laxy M, Gregg E, Zhang P. Influence of Diabetes Complications on the Cost-effectiveness of HbA1c Treatment Goals in Older US Adults. CDC Annual Science Day. The 78th annual conference of American Diabetes Association. June 22-26 in Orlando.
24. Laxy M, Gregg E, Shao H, Zhang P. Cost-effectiveness of structured lifestyle programs for diabetes prevention in the Medicaid population. The 78th annual conference of American Diabetes Association. June 22-26 in Orlando.
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27. Shao H, Shrestha S, Laxy M, Gregg E, Zhang P. Trend in Out-of-pocket Payments for Antidiabetic Medications among US Adults with Private Health Insurance from 2003 to 2016: A Combined Recursive Partition Interrupted Time Series Analysis, CDC Annual Science Day. June 2018 in Atlanta.
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30. Shao H, Shi L, Globalization Module for a Diabetes Progression Prediction Model: the BRAVO model*. ISPOR 23st Annual International Meeting*, May 19-23, 2018 in Baltimore, USA.
31. Shao H, Fonseca V, Stoecker C, Shi L. UPDATING RISK ENGINE FOR DIABETES PROGRESSION AND MORTALITY IN THE UNITED STATES: the Building, Relating, Acting, Validating for Outcomes (BRAVO) of Diabetes Risk Engine. Annual Meeting of Internation Health Economics Association, July 7-11, 2017 in Boston, US.
32. Shao H, Stoecker C, Shi L. When Doubly Robust Is Not Robust Enough: Nonparametric Matching Methods Under Treatment Heterogeneity. Academy Health Annual Research Meeting, June, 2017 in New Orleans.
33. Shao H, Shi L, Diana M, Brown L, Mason K, Cocran D, Carruth A,SchmidtL, Estimating the Costs of Supporting Safety-Net Transformation into Patient-Centered Medical Homes (PCMH) in Post-Katrina New Orleans*. ISPOR 21st Annual International Meeting*, May 21-25, 2016 in DC, USA
34. Shao H, Shi L. Size Distortion of Hypothesis Test for Two-Stage Least Squares Model: What the Gold Standard Can’t Give You. *The CES 2015 North America Conference*, March 13-14, 2015 in Ann Arbor, Michigan, USA

# Poster Presentations:

1. \*Jieun Lee, Qiaochu Xue, Piaopiao Li, Mary Beth Weber, Solveig Argeseanu Cunningham, Karen Sigel, Carl Yang, K.M. Venkat Narayan, Mohammed K Ali, Hui Shao. Clustering the US Population into Social Determinants of Health (SDOH) Subgroups: A Machine Learning Approach. The American Diabetes Association 84th Conference. June 20-24.
2. \*Piaopiao Li, Jieun Lee, Mohammed K. Ali, K. M. Venkat Narayan, Guillermo Umpierrez, Xin Hu, Tyler D. Wagner, Vivian Fonseca, Lizheng Shi, Hui Shao. Estimating QALY-Based Price Ranges for Diabetes Drugs under IRA NegotiationEstimating QALY-Based Price Ranges for Diabetes Drugs under IRA Negotiation. The American Diabetes Association 84th Conference. June 20-24.
3. \*Piaopiao Li, Jithin S Varghese, Megha K. Shah, Francisco J. Pasquel, Jessica Harding, Tianze Jiao, Hui Shao, Mohammed K Ali. Trends in GLP-1RA Use among Individuals with Type 2 Diabetes (T2D) and/or Obesity—Insights from a Nationwide Electronic Health Record System, 2010–2023. The American Diabetes Association 84th Conference. June 20-24.
4. \*Dawei Guan, Piaopiao Li, Tianze Jiao, Xin Hu, Yongkang Zhang, Puneet Chehal, Jieun Lee, K.M. Venkat Narayan, Mohammed K Ali, Hui Shao. Quantifying Price Elasticity of Demand for Insulin among MedicareBeneficiaries. The American Diabetes Association 84th Conference. June 20-24.
5. Sarah Conderino, H. Lester Kirchner, Lorna E. Thorpe, Jasmin Divers, Hui Shao, Annemarie G. Hirsch. Risk of Diabetes among Children and Young Adults after COVID-19 Infection—The DiCAYA Study. The American Diabetes Association 84th Conference. June 20-24.
6. Guan D, Li P, Shao H. Developing a Machine-Learning–Based Prediction Model for Diabetes Duration Using Information from Electronic Health Records. The American Diabetes Association 83th Conference. June 22-28. San Diego.
7. Li P, Guan D, Shao H. Distributional Cost-Effectiveness Analysis of Glucagon-Like Peptide-1 Receptor Agonists (GLP-1 RA) and Tirzepatide Compared with Sulfonylureas (SU) in People with Inadequately Controlled Type 2 Diabetes (T2D). The American Diabetes Association 83th Conference. June 22-28. San Diego.
8. Shao H, Jasmin Devers, DiCAYA Writing Group. Developing a Machine-Learning–Based Prediction Model for Diabetes Duration Using Information from Electronic Health Records. The American Diabetes Association 83th Conference. June 22-28. San Diego.
9. Niu S, Alkhuzam K, Huang W, Shao H. Factors Associated with Glucose-Lowering Drug Adherence Among U.S. Adults with Type 2 Diabetes. The ISPOR 2023 Conference. May 8-12 in Boston.
10. Wang H, Shao H, Vouri S, Park H. Cost-Utility Analysis of Long-Acting Injectable (1-, 3-, AND 6-MONTH INJECTION) and Oral Paliperidone in Adults with Stable Schizophrenia. The ISPOR 2023 Conference. May 8-12 in Boston.
11. Abuloha S, Jafari E, Alshehri A, Eljilany I, Aroza R, Guo J, Shao H. Racial/Ethnic Differences in the Use of Angiotensin II Receptor Stimulatory Vs. Inhibitory Antihypertensive Among US Adults with Hypertension. The ISPOR 2023 Conference. May 8-12 in Boston.
12. Y Wang, Yushi Huang, Vakaramoko Diaby, Hui Shao. Cost-Effectiveness of Lisinopril and Carvedilol for Prevention of Trastuzumab-Induced Cardiotoxicity in US Adults with Early-Stage Breast Cancer. The ISPOR 2022 Conference. May 14-17 in DC.
13. S Abuloha, Piaopiao Li, J Bian, Y Guo, Hui Shao. CAPOX versus mFOLFOX as Adjuvant Chemotherapy in Patients with Stage 3 Colon Cancer: A Cost-Effectiveness Study. The ISPOR 2022 Conference. May 14-17 in DC.
14. R Aroza, A Ndai, Khalid Alkhuzam, Hui Shao, Tianze Jiao. Cost-Effectiveness Analysis of Hemodialysis Vs. Peritoneal Dialysis Among Patients with End-Stage Renal Disease. The ISPOR 2022 Conference. May 14-17 in DC.
15. A Alshehri, K Alkhuzam. S Niu. T Jiao. Y Zhang. H Shao. Cost-Effectiveness Analysis of Empagliflozin Versus Albiglutide Among Individuals with Type 2 Diabetes in the US. The ISPOR 2022 Conference. May 14-17 in DC.
16. K Alkhuzam. D Guan. R Aroza. S Abuloha. H Shao. The Cost-Effectiveness of Olaparib Compared to Niraparib in the Treatment of Recurrent Ovarian Cancer Caused By BRCA1 and BRCA2 Gene Mutation from a US Healthcare Payer Perspective. The ISPOR 2022 Conference. May 14-17 in DC.
17. T Tang, V Fonseca, H Shao, L Shi. A Novel Risk Engine for Diabetes-Related Complications Among Individuals with Type 1 Diabetes in the US. The ISPOR 2022 Conference. May 14-17 in DC.
18. A Ndai, Y Guo, T Jiao, R Aroza, H Park, H Shao, SM Vouri. Cost-Effectiveness of Tenofovir/Lamivudine/Efavirenz Versus Tenofovir/Lamivudine/Dolutegravir for Preventing Mother-to-Child Transmission of HIV in Nigeria. The ISPOR 2022 Conference. May 14-17 in DC.
19. Khalid A. Alkhuzam, Lizheng Shi, Vivian Fonseca, Yongkang Zhang, Jingchuan Guo, Hui Shao. Long-Term Health Benefit and Economic Return of Time in Range (TIR) Improvement in Individuals with Type 2 Diabetes. The American Diabetes Association 82th Conference. June 3-8.
20. Piaopiao Li, Eliot Spector, Khalid Alkhuzam, Rahul Patel, William T Donahoo, Sarah Bost, Tianchen Lyu, Yonghui Wu, William Hogan, Mattia Prosperi, Brian E Dixon, Dana Dabelea, Levon H Utidjian, Tessa L Crume, Lorna Thorpe, Angela D. Liese, Desmond A Schatz, Mark A Atkinson, Michael J. Haller, Elizabeth A Shenkman, Jiang Bian, Yi Guo, Hui Shao. Developing a Computable Phenotype Algorithm for Identification of Children and Adolescents with Diabetes Using Electronic Health Records. The American Diabetes Association 82th Conference. June 3-8.
21. Piaopiao Li, Tianchen Lyu, Jingchuan Guo, Yi Guo, Jiang Bian, Hui Shao. The Role of Health System Penetration Rate in Estimating Prevalence of Type 1 Diabetes (T1D) in Children and Adolescents Using Electronic Health Records (EHR). The American Diabetes Association 82th Conference. June 3-8.
22. Yahan Zhang, Ping Zhang, Meda Pavkov, Yu Wang, Jingchuan Guo, Yongkang Zhang, Hui Shao. Association between Social Determinants of Health and Risk of Type 2 Diabetes in Young Adults Aged 18–45. The American Diabetes Association 82th Conference. June 3-8.
23. Sumaya Abuloha, Alaa A. Alshehri, Michael Jaffee, Naykky Singh Ospina, Hui Shao. A Scoping Review on Diabetes Management in People with Mild Cognitive Impairment (MCI): Glycemic Control, Medications, and Onset of Alzheimer's and Related Dementias (ADRD). The American Diabetes Association 82th Conference. June 3-8.
24. Sarah Conderino, Rebecca Anthopolos, Lorna E. Thorpe, Bo Cai, Hui Shao, Tessa Crume, Toan Ong, Les Kirchner, Brian Schwartz, Marc Rosenman, Victor Zhong, Kristi Reynolds, Levon Utidjian, Seho Park, Jasmin Divers. The Evaluating Alternate Bias Correction Methods in Estimating Diabetes Prevalence with Electronic Health Records. The American Diabetes Association 82th Conference. June 3-8.
25. Hamed Kianmehr, Yilu Lin, Lizheng Shi, Vivian Fonseca, Jingchuan Guo, Hui Shao. Modulators of Treatment Benefits of Albiglutide (GLP-1 RA) in Preventing Major Adverse Cardiovascular Events (MACE) among Individuals with Type 2 Diabetes in the HARMONY Trial Using Machine Learning. The American Diabetes Association 82th Conference. June 3-8.
26. Shu Niu, Dawei Guan, Naykky Singh Ospina, Keneth Cusi, Vivian Fonseca, Lizheng Shi, Hui Shao. Reductions in Traditional Risk Factors Explain Most of the Cardiovascular Benefit of SGLT2 Inhibitors and GLP-1 Receptor Agonists: An Analysis Using the BRAVO Risk Engine. The American Diabetes Association 82th Conference. June 3-8.
27. Dawei Guan, Jingchuan Guo, Ji-Hyun Lee, XiangYang Lou, Hui Shao. Generating Intercorrelated Data for Simulation Samples in Diabetes Microsimulation Experiment. The American Diabetes Association 82th Conference. June 3-8.
28. Dawei Guan, Ping Zhang, Shichao Tang, Joshua Brown, Ruogu Fang, Jingchuan Guo, Yongkang Zhang, Hui Shao. Incremental Health Care Utilizations and Medical Expenditures Associated with Cognitive Impairment among Older Adults with Diabetes. The American Diabetes Association 82th Conference. June 3-8.
29. Yixue Shao, Lizheng Shi, Vivian Fonseca, Hui Shao. External Validation of the BRAVO Diabetes Model Using Data from the EXSCEL Study. The American Diabetes Association 82th Conference. June 3-8.
30. Piaopiao Li, Ping Zhang, Shichao Tang, Jingchuan Guo, Joshua Brown, Tianze Jiao, Hui Shao. Racial and Ethnic Disparities in Diabetes Management, Hospitalization Risk, and Physical Health Status Associated with Cognitive Impairment among Older Adults with Diabetes. The American Diabetes Association 82th Conference. June 3-8.
31. Hui Shao, Khalid Alkhuzam, Tianze Jiao, Ping Zhang, Edward W Gregg. Racial/Ethnic Differences in the Use of Blood Pressure–Lowering Drugs Associated with Different Risk levels of Type 2 Diabetes among U.S. Adults without Diabetes. The American Diabetes Association 82th Conference. June 3-8.
32. Dawei Guan, Shu Niu, Vivian Fonseca, Lizheng Shi, Mohammed Ali, Neda Laiteerapong, Jingchuan Guo, Hui Shao. Individualized Cost-Effectiveness Assessment of Sodium–Glucose Cotransporter 2 Inhibitors (SGLT2i) vs. Sulfonylureas as Add-On Therapy in People with Inadequately Controlled Type 2 Diabetes (T2D) Under Metformin Monotherapy. The American Diabetes Association 82th Conference. June 3-8.
33. Yilu Lin, Hui Shao, Vecihi Batuman, Amanda H Anderson, Vivian Fonseca, Lizheng Shi. A Prediction Model on Incident CKD among Individuals with T2D in the United States. The American Diabetes Association 82th Conference. June 3-8.
34. Yilu Lin, Hui Shao, Vecihi Batuman, Amanda H Anderson, Vivian Fonseca, Lizheng Shi. A Prediction Model of Chronic Kidney Disease Progression among Individuals with Type 2 Diabetes in the United States. The American Diabetes Association 82th Conference. June 3-8.
35. Yilu Lin, Hui Shao, Vecihi Batuman, Amanda H Anderson, Vivian Fonseca, Lizheng Shi. A Prediction Model on Incident End-Stage Kidney Disease (ESKD) among Individuals with Type 2 Diabetes (T2D) and Chronic Kidney Disease (CKD). The American Diabetes Association 82th Conference. June 3-8.
36. Hamed Kianmehr, Ping Zhang, Naykky Singh Ospina, Lizheng Shi, Vivian Fonseca, Jingchuan Guo, Hui Shao. Certain Patient Subgroups with Type 2 Diabetes May Benefit from Intensive Glycemic and Blood Pressure Control from Reductions in Major Adverse Cardiovascular Events (MACE): A Machine Learning–Based Post Hoc Analysis of ACCORD Trial Data. The American Diabetes Association 82th Conference. June 3-8.
37. Lin Y, Shao H,.., Shi L. A Risk Score to Predict Incident Heart Failure among Patients with Type 2 Diabetes Mellitus. The American Diabetes Association 81th Conference. June 24-28.
38. Shao H,..,Shi L. Efficacy of IGlarLixi on Five-Year Risk of Diabetes-Related Complications: A Simulation Experiment. The American Diabetes Association 81th Conference. June 24-28.
39. Li P,..,Shao H. The Diminishing Cost-Effectiveness of the Newer Glucose-Lowering Drugs in the United States, 2010-2018. The American Diabetes Association 81th Conference. June 24-28.
40. Wang Y, Shao H,..,Imperatore G. Cost of Diabetes Complications in U.S. Adults Aged 65 Years or Older. The American Diabetes Association 81th Conference. June 24-28.
41. Wang Y, Huang Y, Shao H, Winterstein A. Cost-effectiveness of pembrolizumab versus chemotherapy for advanced esophageal squamous cell carcinoma (ESCC) as the second-line treatment among Chinese population. The Virtual ISPOR 2021 Conference. May 17-20 in Montreal.
42. Zhang Y, Bian J,..,Shao H. Comparing the Downstream Costs and Healthcare Utilization Associated with the Use of Low-dose Computed Tomography (LDCT) in Lung Cancer Screening in Patients with and without Alzheimer’s Disease and Related Dementias (ADRD). The Virtual ISPOR 2021 Conference. May 17-20 in Montreal.
43. Zhang P, Shao H, Chen H. Cost of Achieving A1C Treatment Goals in Patients with Type 2 Diabetes: Results from the Action to Control Cardiovascular Risk in Diabetes (ACCORD) Trial. The 80th annual conference of American Diabetes Association. June 12-14, 2020.
44. Neuwahl S, Hoerger T, Shao H, Zhang P. Preventing Diabetes: Resource Allocation between Risk-Based and Whole Population–Based Approaches. The 80th annual conference of American Diabetes Association. June 12-14, 2020.
45. Hoerger T, Kaufmann M, Shao H, Zhang P. Developing New Risk Equations to Predict Diabetes-Related Complications and Mortality in U.S. Adults with Type 2 Diabetes. The 80th annual conference of American Diabetes Association. June 12-14, 2020.
46. Yang W, Cintina I, Shao H, Zhang P.Estimating the Costs of Diabetes Complications in People. The 80th annual conference of American Diabetes Association. June 12-14, 2020.
47. Kianmehr H, Yang S, Shao H. Life Expectancy of Individuals with Type 2 Diabetes Mellitus (T2DM) in the United States. The 80th annual conference of American Diabetes Association. June 12-14, 2020.
48. Hong D, Shen Y, Shao H, Shi L. Does The Encounter Type Matter When Defining Diabetes Complications In Electronic Health Records? May 15-18, International Society of Pharmacoeconomics and Outcomes Research Annual meeting (2020, online).
49. Shao H,Shi L, Furman R, Fonseca V. Impact of Quality Improvement (QI) Program on 5-Year Risk of Diabetes-Related Complications. The 79th annual conference of American Diabetes Association. June 6-12, 2019 in San Francisco.
50. Shao H, Greg E, Zhang P. Trend in Total Payment and Out-of-Pocket Payment on a Yearly Supply of Oral Antidiabetic Drug Types among U.S. Adults with Private Health Insurance from 2003 to 2016. The 79th annual conference of American Diabetes Association. June 6-12 in San Francisco.
51. Shao H,Shi L, Fonseca V. Estimating Diabetes Duration from Electronic Medical Records (EMRs) with an Intrinsic Diabetes Risk Prediction Model: From Clinical Trial to Real-World Clinical Practice. The 79th annual conference of American Diabetes Association. June 6-12 in San Francisco.
52. Shao H, Fonseca V, Shi L. is higher-priced insulin associated with better economic and health outcomes? a study from a value-based payment perspective. ISPOR. May 18-22 in New Orleans.
53. Shao H, Fonseca V, Stoecker C, Shi L. Projecting Long-Term Diabetes Complications through a BRAVO-Based Mock Simulation for Promoting Diabetes Prevention Program (DPP. The 78th annual conference of American Diabetes Association. June 22-26 in Orlando.
54. Shao Y, Shao H, Shi L. Serum Uric Acid (SUA) as a Risk Factor of Cardiovascular Events in Diabetes Population: a Meta-analysis of Correlational Evidence. The 78th annual conference of American Diabetes Association. June 22-26 in Orlando.
55. Laxy M, Gregg E, Shao H, Zhang P. Health Benefits and Cost Impact of Paying for Diabetes Prevention Lifestyle Programs in Medicaid Beneficiaries. Academy Health Annual Research Meeting. June 22-26 2018 in Seattle.
56. Laxy M, Gregg E, Shao H, Zhang P. The impact of insurance status on quality of diabetes care in the United States. Academy Health Annual Research Meeting. June 22-26 2018 in Seattle
57. Shao H, Shrestha S, Laxy M, Gregg E, Zhang P. Program Selections for Type 2 Diabetes Prevention: a Cost-effectiveness Analysis. Academy Health Annual Research Meeting. June 22-26 2018 in Seattle.
58. Shao H, Shrestha S, Laxy M, Gregg E, Zhang P. Trend in Out-of-pocket Payments for Antidiabetic Medications among US Adults with Private Health Insurance from 2003 to 2016: A Combined Recursive Partition Interrupted Time Series Analysis, Academy Health Annual Research Meeting. June 22-26 2018 in Seattle.
59. Shao H, Yang S, Fonseca V,Shi L. Estimating Quality of Life Decrements Due to Diabetes Complications in the United States. ISPOR 23st Annual International Meeting, May 19-23, 2018 in Baltimore, US.
60. Shao H, Shi L. THE IMPACT OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) AND METHICILLIN-SENSITIVE STAPHYLOCOCCUS AUREUS (MSSA) INFECTION ON HOSPITAL READMISSIONS AMONG PATIENTS WITH PNEUMONIA. ISPOR 22st Annual International Meeting, May 21-25, 2017 in Boston, US.
61. Yin L, Shao H, Shi L.REGIONAL VARIATION OF INTRAVENOUS TISSUE PLASMINOGEN ACTIVATOR (IV TPA) UTILIZATION AMONG ISCHEMIC STROKE PATIENTS IN THE UNITED STATES (US). Academy Health Annual Research Meeting, June, 2017 in New Orleans.
62. Shao H, Fonseca V, Stoecker C, Shi L. UPDATING RISK ENGINE FOR DIABETES PROGRESSION AND MORTALITY IN THE UNITED STATES: INTERNAL VALIDATION. ISPOR 22st Annual International Meeting, May 21-25, 2017 in Boston, US.
63. Shao H, Stoecker C, Shi L. When Doubly Robust Is Not Robust Enough: Nonparametric Matching Methods Under Treatment Heterogeneity. ISPOR 22st Annual International Meeting, May 21-25, 2017 in Boston, US.
64. Shao H, Qian Shi, Shuqian Liu, Lizheng Shi. COST-EFFECTIVENESS ANALYSIS OF DAPAGLIFLOZIN VERSUS GLIMEPIRIDE AS MONOTHERAPY IN PATIENTS WITH TYPE 2 DIABETES MELLITUS IN CHINA. The ISPOR 7th Asia-Pacific Conference. Sept 3-6, 2016 in Singapore.
65. Shuyan G, Shao H, Hengjin Dong. COST-EFFECTIVENESS OF SAXAGLIPTIN VERSUS ACARBOSE AS SECOND-LINE THERAPY IN TYPE 2 DIABETES IN CHINA. The ISPOR 7th Asia-Pacific Conference. Sept 3-6, 2016 in Singapore. Sept 3-6, 2016 in Singapore.
66. Velde N, Moparty K, Shi L, Sha H. Does an Inverse Correlation Exist Between Vitamin D as Measured by 25(OH) Choleciferol and PSA in Veterans with Prostate Cancer, Louisiana Cancer Research Consortium, April 22, 2016 in New Orleans, USA
67. Shao H, Shi L, Charles S. Cost Sharing and Demand Elasticity on Disease Modifying Therapies (DMTs) in Multiple Sclerosis. ISPOR 21st Annual International Meeting, May 21-25, 2016 in DC, USA
68. Shao H, Mir MU, Ye X, Thomas N, Babazadeh S. Impact of Depression on Health Status and Health Care Utilization in Patient with Hypertension. ISPOR 21st Annual International Meeting, May 21-25, 2016 in DC, USA
69. Michele S, Liu E, Wang Y, Shao H, Shi L. READMISSION DUE TO INFECTION FOLLOWING TOTAL HIP AND TOTAL KNEE PROCEDURES. ISPOR 21st Annual International Meeting, May 21-25, 2016 in DC, USA
70. Shao H, Shi L. Effect of health insurance benefit plan design on comparative effectiveness of anti-diabetic medications in adults with type 2 diabetes mellitus. American Society of Health Economics Fifth Biennial Conference, June, 2014 in Los Angeles.
71. Shao H, Shi L, Shi Q. Size distortion of hypothesis tests for two-stage least squares model: what the rule of thumb can’t give you. ISPOR 19th Annual International Meeting, June, 2014 in Montreal, QC, Canada.
72. Oronce CI, Shao H, Shi L. Disparities in 30-day readmissions after total hip arthroplasty. Academy Health Annual Research Meeting, June, 2014 in San Diego.
73. Katalenich B, Shi L, Liu S, Shao H, McDuffie R, Haggar M, Wang A, Carpio G, Thethi, Fonseca V. Evaluation of a remote monitoring system for diabetes control and medication adherence. The 74th American Diabetes Association annual meeting. June, 2014 in San Francisco.
74. Price-Haywood EG, Amering S, Shao H, Shi L. Diabetes care management: comparative effectiveness of clinical decision support vs. additional pharmacist-led self-management support. American Public Health Association. Annual Conference. November 2014 in New Orleans.
75. Shao H, Shi L. Interventions for reducing 30-day hospital readmission: A systematic review. Academy Health Annual Research Meeting, June, 2013 in Baltimore.
76. Shao H, Shi L. Mapping and analyzing stakeholders in china’s essential drug operation system by using circular model: who we should deal with next? ISPOR 18th Annual International Meeting, June, 2013 in New Orleans.
77. Shi L, Shao H, Is hypoglycemia fear independently associated with health-related quality of life?ISPOR 18th Annual International Meeting, June, 2013 in New Orleans.
78. Shao H, Shi L, Mapping and Analyzing Stakeholders in China’s Essential Drug System by Using a Circular Model: Who We Should Deal with Next? Tulane Health Research Science Day, Feb 1-2, 2013 in New Orleans, USA

# Service to the Profession

# Reviewer

# *The Lancet*

# *The Lancet Diabetes and Endocrinology*

# *Annals of Internal Medicine*

# *Diabetes Care*

# *Value in Health*

# *Journal of Diabetes and Its Complications*

# Professional Associations

# *Current*

# Director of Academics, China Health Policy and Management Society

# Member of the External Advisory Board for the Institute for Clinical and Economic Review (ICER)

# Member of Editorial board for the Journal of Diabetes and its Complications

# Member of Editorial board for the Global Health Journal

# Members*, International Society for Pharmacoepidemiology (ISPE)*

# Members*, International Society for Pharmacoeconomics and Outcomes Research (ISPOR)*

# Members*, American Society of Health Economics (ASHEcon)*

# Members*, Chinese Economists Society (CES)*

# Members*, American Diabetes Association (ADA)*

# Members*, Academy Health*

# Members*, International Health Economics Association (iHEA)*

# *Past*

# President *of Tulane Student Chapter for International Society for Pharmacoeconomics and Outcomes Research (ISPOR) June 2013 – May 2017*

# Member of Grant Objective Review Committee *for the Division of Population Health, CDC Feb 2018*

# Member of Grant Objective Review Committee *for the Division of Diabetes Translation, CDC Feb 2018*

# Member of Health Economics Research Group (HERG) award committee*, CDC OCT 2017*

# Media Coverage

# Reported by Endocrinology: “Estimating the Impact of the Medicare Part D Senior Savings Model on Expenses for Insulin Users on Medicare.”

# Reported by *Redcliff Cardiology:* *Intensive Glycemic Control Can Reduce Major Adverse Cardiovascular Events (MACE): A Bayesian’s Narrative.*

# Reported by *MedicalResearch*: Insulin Costs Rise But Mostly Not Paid For Out-of-Pocket by Patients.

# Reported by *Medscape*: Implementing ACP Diabetes Guidelines Could Be Cost-Effective.

# Reported by *MD Magzine*: ACP Guideline for A1c Levels Provide Cost-Effectiveness for Diabetics.

# Reported by *Endocrinology Advisor*: Triple-Goal Achievement Reduces Risk for Complications in Type 2 Diabetes.

# Reported in *Tulane News (2018)*: Tulane researchers develop new way to predict complications in diabetes patients.

# Reported in *Tulane News (2016)* on presentation: The Costs of Supporting Safety-Net Transformation into Patient-Centered Medical Homes (PCMH) in Post-Katrina New Orleans

# Reported in *ISPOR News (2015)* on paper: Ensuring the Future for China’s Essential Drug Policy.

# Reported in *Tulane News (2015)* on research: Disparities in 30-Day Readmissions after Total Hip Arthroplasty.

# Invited Talks

* *“Using Artificial Intelligence to Support Precision Medicine and Precision Public Health Policy in Diabetes”*

Workshop on Applications of Artificial Intelligence/Machine Learning in Health Disparities Research and Workforce Diversity, University of Georgia, 2023

* *“Building Equity Improvement into Quality Improvement Via Distributional Cost-Effectiveness Assessment: A Case Study of SGLT2 Inhibitor Use in Diabetes Management”*

The Centers for Disease Control and Prevention, Health Economics Research Group, 2023

* *“Using Artificial Intelligence to Support Precision Medicine and Precision Public Health Policy in Diabetes”*

 *University of Chicago, 2023*

* *“AI in Precision Medicine and Precision Public Health Policy”*

 The Center for National Policy and Development, Pecking University, 2023

* *“Microsimulation model for Chronic Disease: Development and Application”*

 *Shandong University, 2023*

* *“AI in Precision Medicine and Precision Public Health Policy”*

 *The GRADY Hospital, Atlanta, 2023*

* *“Causal AI in Precision Medicine”*

 Johnson & Johnson, 2023

* *“Using Artificial Intelligence to Support Precision Medicine and Precision Public Health Policy in Diabetes”*

 University of Illinois Chicago, 2023

* *“Develop microsimulation model to guide national policy”*

Fudan University, 2023

* *“Economic Evaluation: A New Tool For Clinical Outcomes Research”*

 **The Cardiology Grand Round**, UF Shands Hospital, 2022 Spring

* *“Use Simulation Experiment to Guide National Policy”*

 Shandong University, China, 2020

* *“New Advancements in Computer Simulation”*

 University of South California, The Leonard D. Schaeffer Center, 2019, fall

* *“Application of Computer Simulation in Modern Clinical Practice.”*

 Provincial Diabetes Hospital, Shandong, China, 2018 Summer

* *“Intensive Glycemic Control is Less Cost Effective on older people with more comorbidities/ complications.”*

 Division of Diabetes Translation, CDC, 2017 Winter

* *“A Novel Risk Engine for Diabetes Progression and Mortality in the United States: Building, Relating, Acting, and Validating Outcomes (BRAVO)Model”*

#  School of Pharmacy, Purdue University, 2017 April

# *“PSM/PSW Application in Survey Design and Multiple Group Scenario”*

# GHSD-8250 Advanced Research Methods, 2017 Spring

# *“PSM/PSW Application in Survey Design and Multiple Group Scenario”*

# GHSD-8250 Advanced Research Methods, 2016 Spring

# *“Linear Model: from beginning to the infinity and beyond”*

# GHSD-8250 Advanced Research Methods, 2016 Spring

# *“Decision Tree, Markov Model and TreeAge”*

#  GHSD-7740 Economic Evaluation and Modelling, 2015 Fall

# *“Discrete Event Modelling: basics and advanced application”*

#  GHSD-7740 Economic Evaluation and Modelling, 2015 Fall

# *“Alternative Method for Evaluating Observational Data: Propensity Score Matching”*

# GHSD-8250 Advanced Research Methods, 2015 Spring