



Center for Healthcare Economics and Policy

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EDUCATION

- Ph.D. Economics, University of California, San Diego, 2009
- B.S. Business & Public Policy, University of Pennsylvania (Wharton), 2002
- B.A. Spanish, University of Pennsylvania (School of Arts & Sciences), 2002

PROFESSIONAL EXPERIENCE

- Senior Managing Director, FTI Consulting, Inc. 2021 – Present
- Founder and Editor, Healthcare Economist 2006 – Present
- Vice President, PRECISIONheor 2013 – 2021
- Scientific Advisor, Innovation and Value Initiative 2019
- Director of Research, Innovation and Value Initiative 2016 – 2018
- Policy Lead, Acumen LLC 2009 – 2013
- Instructor, University of California, San Diego 2008
- Teachers' Assistant University of California, San Diego 2004 – 2009
- Financial Analyst, General Electric 2002 – 2004

PEER-REVIEWED PUBLICATIONS

Shafirin, Jason, Suepattra G. May, Lauren M. Zhao, Katalin Bognar, Yong Yuan, John R. Penrod, and John A. Romley. "Measuring the Value Healthy Individuals Place on Generous Insurance Coverage of Severe Diseases: A Stated Preference Survey of Adults Diagnosed With and Without Lung Cancer." *Value in Health* (2021).

Halasy, Michael, **Jason Shafirin**. When Should You Trust Your Doctor? Establishing a Theoretical Model to Evaluate the Value of Second Opinion Visits. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes*. 2021. <https://doi.org/10.1016/j.mayocpiqo.2021.01.014>.

Shafirin, Jason, Syvart Dennen, Priti Pednekar, Kelly Birch, Menaka Bhor, Julie Kanter, and Peter Neumann. For which diseases do broader value elements matter most? An evaluation across 20 ICER evidence reports. *Journal of Managed Care & Specialty Pharmacy* 2021 March. Online Ahead of Print.

Shafirin, Jason, Howard HZ Thom, Edna Keeney, Daisy M. Gaunt, Lauren M. Zhao, Menaka Bhor, Avery A. Rizio, Lanetta Bronté-Hall, and Nirmish Shah. "The Impact of Vaso-Occlusive Crises and Disease Severity on Quality of Life and Productivity Among Patients with Sickle Cell Disease in the US." *Current medical research and opinion* (2021): 1-1.

May, Suepattra G., Caroline Huber, Meaghan Roach, **Jason Shafirin**, Wade Aubry, Darius Lakdawalla, John M. Kane, and Felicia Forma. "Adoption of Digital Health Technologies in the Practice of Behavioral Health: Qualitative Case Study of Glucose Monitoring Technology." *Journal of Medical Internet Research* 23, no. 2 (2021): e18119.

Shafrin, Jason, Marlon Graf, Rifat Tuly, Christoph Glaetzer, Stacey Hickson, T Joseph Mattingly II, " We Have Vaccines, Now What? How to Ensure Continued COVID-19 Vaccine Discovery and Expedite Access." *J Clin Pathways* 7, no. 1 (2021): 46-48.

Shafrin, Jason, Elmar R. Aliyev, Michelle Brauer, Siyeon Park, and Xian Shen. "Alternative payment models and innovation: a case study of US health system adoption of a sacubitril/valsartan to treat acute decompensated heart failure." *Journal of Medical Economics* (2020): 1-11.

MacEwan, Joanna P., Syvart Dennen, Rebecca Kee, Farzad Ali, **Jason Shafrin**, and Katharine Batt. "Changes in mortality associated with cancer drug approvals in the United States from 2000 to 2016." *Journal of Medical Economics* (2020): 1-12.

Thom, Howard, Jeroen Jansen, **Jason Shafrin**, Lauren Zhao, George Joseph, Hung-Yuan Cheng, Subhajt Gupta, and Nirmish Shah. "Crizanlizumab and comparators for adults with sickle cell disease: a systematic review and network meta-analysis." *BMJ open* 10, no. 9 (2020): e034147.

Shafrin, Jason, Kathy Lang, and Ross Maclean. "COVID-19 Pandemic Vindicates the ISPOR Value Flower." *J Clin Pathways* 6, no. 5 (2020): 53-56.

Mubayi, Anuj, Jeff Sullivan, **Jason Shafrin**, Oliver Diaz, Aditi Ghosh, Anamika Mubayi, Olcay Akman, and Phani Veeranki. "Battling Epidemics & Disparity with Modeling." *Letters in Biomathematics* 7, no. 1 (2020): 105-110.

van Eijndhoven, Emma, Michelle Brauer, Rebecca Kee, Joanna MacEwan, Lisa Mucha, Schiffo L. Wong, Adeline Durand, and **Jason Shafrin**. "Modeling the impact of patient treatment preference on health outcomes in relapsing-remitting multiple sclerosis." *Journal of medical economics* 23, no. 5 (2020): 474-483.

Abraham, Jeffrey, Michael Ambrose, Timothy Aungst, Rick Bartels, Mark Bini, Jesse Bushman, Ambrose Carrejo et al. "AMCP Partnership Forum: Digital Therapeutics-What Are They and Where Do They Fit in Pharmacy and Medical Benefits?." *JOURNAL OF MANAGED CARE & SPECIALTY PHARMACY* 26, no. 5 (2020): 674-681.

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Kabiri, Mina, Michelle Brauer, **Jason Shafrin**, Jeff Sullivan, Thomas M. Gill, and Dana P. Goldman. "The Long-Term Health and Economic Value of Improved Mobility among Older Adults in the United States." *Value in Health* (2018).

Linthicum, Mark T., M. P. A. Jennifer Bright, and **Jason Shafrin**. "Open-Source Tools for Value Assessment: A Promising Approach." *J Clin Pathways* 4, no. 5 (2018): 37-39.

Shafrin, Jason, Anshu Shrestha, Amitabh Chandra, M. Haim Erder, and Vanja Sikirica. "Evaluating Matching-Adjusted Indirect Comparisons in Practice: A Case Study of Patients with Attention-Deficit/Hyperactivity Disorder." *Health economics* 26, no. 11 (2017): 1459-1466.

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Schafer, Jeremy, Dominic Galante, and **Jason Shafrin**. "Value Tools in Managed Care Decision Making: Current Hurdles and Future Opportunities." *Journal of Managed Care & Specialty Pharmacy* (2017). Harvard

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strategies: evidence from an online survey of providers." *Patient preference and adherence* 11 (2017): 1071.

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Shafrin, Jason, Amanda Bruno, Joanna P. MacEwan, Avrita Campinha-Bacote, Jeffrey Trocio, Manan Shah, Wilson Tan, and John A. Romley. "Physician and patient preferences for nonvalvular atrial fibrillation therapies." *Value in Health* 19, no. 4 (2016): 451-459.

Shafrin, Jason, Ningqi Hou, Ron Brookmeyer, Desi Peneva, Seanna Vine, Jinhee Park, Jie Zhang, Robert A. Figlin, and Darius N. Lakdawalla. "Predicting real-world effectiveness using overall survival and progression-free survival-based clinical trial efficacy measures." (2016): 6564-6564.

Chandra, Amitabh, **Jason Shafrin**, and Ravinder Dhawan. "Utility of cancer value frameworks for patients, payers, and physicians." *JAMA* 315, no. 19 (2016): 2069-2070.

Shafrin, Jason, Ron Brookmeyer, Desi Peneva, Jinhee Park, Jie Zhang, Robert A. Figlin, and Darius N. Lakdawalla. "The value of surrogate endpoints for predicting real-world survival across five cancer types." *Current medical research and opinion* 32, no. 4 (2016): 731-739.

Shafrin, Jason, Jin Joo Shim, Caroline Huber, Jenny Griffith, Arijit Ganguli, and Wade Aubry. "Regional Variation in Measured Detection of Ankylosing Spondylitis." *Arthritis & Rheumatology* 67 (2015): 1565-1566.

Chicklis, Camille, Thomas MaCurdy, Jay Bhattacharya, **Jason Shafrin**, Sajid Zaidi, and Daniel Rogers. "Regional growth in Medicare spending, 1992–2010." *Health services research* 50, no. 5 (2015): 1574-1588.

Turakhia, Mintu P., **Jason Shafrin**, Katalin Bogner, Dana P. Goldman, Philip M. Mendys, Younos Abdulsattar, Daniel Wiederkehr, and Jeffrey Trocio. "Economic burden of undiagnosed nonvalvular atrial fibrillation in the United States." *The American journal of cardiology* 116, no. 5 (2015): 733-739.

Lakdawalla, Darius, **Jason Shafrin**, Claudio Lucarelli, Sean Nicholson, Zeba M. Khan, and Tomas J. Philipson. "Quality-adjusted cost of care: a meaningful way to measure growth in innovation cost versus the value of health gains." *Health Affairs* 34, no. 4 (2015): 555-561.

Shafrin, Jason. "Operating on commission: analyzing how physician financial incentives affect surgery rates." *Health economics* 19, no. 5 (2010): 562-580.

Shafrin, Jason T., and John M. Fontanesi. "Focus on Vaccines Delivering Vaccines: A Case Study of the Distribution During implementation of the Vaccine Management Business Improvement Project, providers experienced longer delivery delays and a higher probability of a Vaccines for Children stockout." *American Journal of Managed Care* 15, no. 10 (2009): 751.

Bowers, Debra A., and **Jason Shafrin**. "Comparison of pharmacists and primary care providers as immunizers." *American Journal of Pharmacy* 1, no. 3 (2009): 150-157.

TECHNICAL REPORTS

Prepared for the Centers for Medicare and Medicaid Services and the Institute of Medicine

Geographic Variation in Spending, Utilization and Quality: Medicare and Medicaid Beneficiaries, (with Thomas MaCurdy, Jay Bhattacharya, Daniella Perloth, Anita Au-Yeung, Hani Bashour, Camille Chicklis, Kennan Cronen, Brandy Lipton, Shahin Saneinejad, Elen Shrestha, and Sajid Zaidi) Report prepared for the Institute of Medicine. Burlingame, CA, 2013.

IOM Study of Geographic Variation: Growth Analysis, (with Thomas MaCurdy, Jay Bhattacharya, Camille Chicklis, Kennan Cronen, Jesselyn Friley, Brandy Lipton, Daniel Rogers, Sajid Zaidi.) Report prepared for the Institute of Medicine. Burlingame, CA, 2012.

Geographic Adjustment of Medicare Payments to Physicians: Evaluation of IOM Recommendations, (with T. MaCurdy, T. DeLeire, J. DeVaro, M. Bounds, D. Pham, and A. Chia), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2012.

Wage Index Reform Report to Congress: Technical Appendix. "Revising the Medicare Wage Index to Account for Commuting Patterns" (with T. MaCurdy, K. López de Nava, A. Shah, T. DeLeire). Acumen, LLC Report prepared for the Center for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2012.

Home Health Value-Based Purchasing Optional Design Approaches, (with T. MaCurdy, K. Cook, K. Piccinini, M. O'Brien-Strain, A. Shah, G. DeForest, L. Hyungi Noh, C. Sharma, and D. Deitz), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Report to Congress: Plan to Implement a Medicare Home Health Value-Based Purchasing Program, (with T. MaCurdy, K. Cook, K. Piccinini, G. Marrufo, A. Dixit, and A. Shah), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Long-Term Forecasts Using Time Series Models, (with T. MaCurdy, and P. Hansen), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, 2011.

Revising the Medicare Wage Index to Account for Commuting Patterns, (with T. MaCurdy, K. López de Nava, A. Shah, and T. DeLeire), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Proposed Revisions to the Sixth Update of the Geographic Practice Cost Index, (with T. MaCurdy, and M. Bounds), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Revisions to the Sixth Update of the Geographic Practice Cost Index: Final Report, (with T. MaCurdy, M. Bounds, and D. Pham), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Optimal Pay-for-Performance Scores: How to Incentivize Physicians to Behave Efficiently Using Episode-Based Measures, (with T. MaCurdy, E. Hartmann, M. Ho, L. Talbot, K. Ueda, and Z. Zhang), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Issues in the Construction of Medicare Episodes, (with T. MaCurdy, E. Hartmann, M. Ho, L. Talbot, J. Wong, S. Zaidi, and Z. Zhang), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Evaluations of Four Episode Groupers, (with T. MaCurdy, S. Zaidi, C. Sharma, M. Wernecke, C. Chicklis, J. Choi, and M. Chou), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Medicare Grouper Evaluation: Risk Adjustment, (with T. MaCurdy, S. Zaidi, C. Sharma, M. Wernecke, C. Chicklis, J. Choi, and M. Chou), Acumen, LLC Report prepared for the Centers for Medicare and Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Analysis of Current-Law Health Expenditure Projections, (with T. MaCurdy, and D. Zheng), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2011.

Expenditure Patterns for Part D Prescription Drugs, 2006-2008, (with T. MaCurdy, M. Bounds, E. Hartmann, J. Son, and K. Ueda), Acumen, LLC Report prepared for the Medicare Payment Advisory Commission. Burlingame, CA: Acumen, LLC, 2010.

Price Indices for Part D Prescription Drugs: 2006-2008, (with T. MaCurdy, M. Bounds, K. Ueda, J. Son, S. Jhatakia, and E. Hartmann), Acumen, LLC Report prepared for the Medicare Payment Advisory Commission. Burlingame, CA: Acumen, LLC, 2010.

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Overview of Acumen's Alternative Formulation of the Hospital Wage Index, (with T. MaCurdy, T. DeLeire, K. López de Nava, and A. Shah), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2010.

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Challenges in the Risk Adjustment of Episode Costs, (with T. MaCurdy, E. Hartmann, M. Ho, L. Talbot, K. Ueda, and Z. Zhang), Acumen, LLC Report prepared for the Centers for Medicare & Medicaid Services. Burlingame, CA: Acumen, LLC, 2010.

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MEDIA - COMMENTARIES

MedCity News. "How the value of innovation will be redefined in 2021". October 6, 2020.

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Health Affairs. "Creating Incentives To Narrow The Gap In Health Outcomes: Expanding Value Assessment To Incorporate Health Inequality" with Meena Venkatachalam. July 15, 2020.

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Health Affairs. "Patient-Centered Formularies: Steps In The Right Direction, But Challenges Remain" April 11, 2018. With Mark Linthicum.

US News and World Report. "What's All the Fuss About Precision Medicine?", August 25, 2017.

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Forbes. "Are You Just a Number? How New Healthcare Value Frameworks Miss the Point", August 4, 2016. With Thomas Philipson.

Modern Healthcare. "Irrational model Healthcare economist reveals connection between behavior, care" June 15, 2013.

MEDIA – INTERVIEWS AND PRESS CITATIONS

Radar on Specialty Pharmacy. "Law Will Allow Calif. to Produce, Distribute Biosimilars, Generics" October 1, 2020

Redeeming Value Podcast. "S2 E2: Jason Shafrin on Where -- and Why -- ICER Really Matters" September 29, 2020

American Journal of Managed Care. "Experts Discuss How Expanding Traditional Value Frameworks Can Address Inequities in Health Outcomes" September 9, 2020.

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Spotlight on Market Access. "Conveying Value of Accelerated Approval Drugs May Be Challenge for Pharma Firms." September 2, 2019.

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NPR, Here and Now, Radio interview, October 31, 2016,

N.Y. Times. For Better, for Worse, for B.M.I.. June 11, 2010

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TRADE PRESS

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Shafrin, Jason. "Advancing the Discussion of Real-World Evidence" **Drug Discovery and Development.** November 8, 2017.

Shafrin, Jason. "Value frameworks are here: What to do about them?" *Pharmaceutical Commerce*.

ACCOLADES FOR THE HEALTHCARE ECONOMIST BLOG

- **Intelligent Economist Top 100 economics blogs of 2020.**
 - Also won award in 2016, 2017, 2018, and 2019.
- **Cavalcade of Risk Editor's Pick #1 Blog Post.**
- Ranked the **#2 Specialized Economics Blog** of 2006 by The Bayesian Heresy website.
- **Top 3 Health Site** as determined by the NHS Institute for Innovation and Improvement.
- Ranked as one of the **Top 15 Health blogs** by Wikio.com.
- Ranked as one of the **Top 50 Medical blogs** of 2018 by Cables and Sensors.
- Ranked as one of the **Top 40 Economics blogs** by 26Econ.com.
- Ranked as one of the **Top 40 Health blogs** by Healthcare 100.
- One of the **Top 50 Healthcare Policy Blogs** in Nursing Assistant Guides.
- Ranked as one of the **Top 100 Health Care blogs** by RN Central.
- Ranked as one of the **Top 100 Health Policy blogs** by the Health Tech's Blog.
- Ranked as one of the **Top 100 Health blogs** by Feedspot.
- Awarded the **RHI Blog of the Week** by Regulating Health Insurance.
- Named as one of the **2010 Top Healthcare Blogs** by Medical Billing and Coding.
- One of the **Top 30 Public Health Blogs** by Masters in Public Health Degrees.
- Ranked as one of the **Top 50 Blogs to Learn About Nationalized Healthcare** at MasterOfHealthAdministration.com.
- Named one of the **Top 50 Health IT Blogs** by Sansoro Health.

PROFESSIONAL ASSOCIATIONS

Academy Health, Member

American Bar Association, Member, Antitrust and Health Law Sections

American Economic Association, Member

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International Society for Pharmacoeconomics and Outcomes Research, Member