

CURRICULUM VITAE

**RANDALL P. ELLIS**

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**EDUCATION**

- 1981 Ph.D., Massachusetts Institute of Technology, in economics  
major fields: industrial organization and econometrics  
minor fields: economic history and fiscal economics  
thesis title: "Electric Utility Pricing and Investment Decisions Under Uncertainty"  
Supervisors: Paul Joskow and Richard Schmalensee
- 1977 M.Sc., London School of Economics and Political Science, London UK, in economics  
major field: public finance
- 1976 B.A., Yale University, in economics  
Senior thesis: "The Economic Consequences of Poor Nuclear  
Power Plant Operating Reliability"

**ACADEMIC EXPERIENCE**

- 1995-present Professor, Department of Economics, Boston University
- 2024, March Honorary Professor, Macquarie University, Sydney Australia
- 2004-2010 Adjunct Professor, Centre for Health Economics Research and Evaluation,  
University of Technology Sydney, Australia
- 2008-2010 Associate Chair, Department of Economics, Boston University
- 1989-1995 Associate Professor, Department of Economics, Boston University
- 1981-1989 Assistant Professor, Department of Economics, Boston University
- 1979-1981 Instructor, M.I.T.

**Undergraduate courses taught**

Introduction to Health Economics  
Principles of Microeconomics  
Intermediate Microeconomics  
Introduction to Econometrics

**Graduate courses taught**

Health Economics 1 (Ph.D. level)  
Health Economics 2 (Ph.D. level)  
Health Economics of Developing Countries (Masters' and Ph.D. level)  
Advanced Microeconomic Theory (Ph.D. level)  
Advanced Microeconomic Theory (masters' level)  
Advanced Statistics (Ph.D. level)  
Statistics for Economists (Master's level)  
Math for Economists (Master's level)  
Economics of Energy and the Environment (Master's level)  
Welfare Economics (Ph.D. level)  
Joint BU/Harvard/MIT Health Economics Seminar

**OTHER EXPERIENCE**

2010-present Member and US country coordinator, Risk Adjustment Network  
 1989-2021 Research Associate, African Studies Center, Boston U.  
 2019-2020 Co-Editor of Special Issue "Incentive and Market Perspectives in Health Care,"  
 International Journal of Environmental Research and Public Health  
 2018-2019 Chair, Risk Adjustment Network (RAN)  
 2019, Sept Co-chair, RAN Annual conference, Portland ME.  
 2018, spring Visiting professor, Department of Economics and CRES, University of Pompeu  
 Fabra, Barcelona, Spain  
 2017, fall Visiting professor, Boston College  
 2017 Local Organizing Committee Co-Chair, International Health Economics  
 Association, World Congress, Boston MA  
 2014-2020 Scientific Advisory Board, Hospital Innovation Economics, Paris School of  
 Economics, Paris, France.  
 2013-2021 Associate Editor, American Journal of Health Economics  
 1989-2020 Associate Editor, Journal of Health Economics  
 2005-2014 Board of Directors, American Society for Health Economists (ASHEcon)  
 2006-2013 Editorial Board, Berkeley Economic Journals in Economic Analysis and Policy  
 2010-2012 President, American Society of Health Economists (ASHEcon)  
 1998-2012 Senior Scientist, Verisk Health Inc. (formerly DxCG Inc.) Waltham, MA  
 2011, spring Visiting Professor, School of Economics, University of New South Wales, Sydney,  
 Australia  
 2011, spring Visiting Professor, University of Technology Sydney (UTS), Centre for Health  
 Economics Research and Evaluation (CHERE), Sydney, Australia  
 2010, fall Visiting Professor, Department of Health Care Policy, Harvard Medical School  
 2008-2010 President-Elect and conference program chair, American Society for Health  
 Economists (ASHEcon)  
 2002-2008 Member, iHEA Arrow Award Committee choosing best paper published in health  
 economics  
 2004-2007 Board of Directors, International Health Economics Association (iHEA)  
 2004, spring Visiting professor, University of Technology Sydney, Centre for Health Economics  
 Research and Evaluation (CHERE), Sydney, Australia  
 2003, fall Visiting Professor, Department of Health Care Policy, Harvard Medical School  
 1995-2000 Senior Economist, Health Economics Research, Waltham, MA  
 1997, spring Visiting Professor, Department of Health Care Policy, Harvard Medical School  
 1996, fall Visiting Scholar, Institute on Economic Growth, New Delhi, India  
 1996-1997 President, DxCG, Inc., Waltham MA  
 1988-1995 Consultant, Health Economics Research, Waltham, MA  
 1994 Consultant, International Health Policy Program, Accra, Ghana  
 1990-1994 Reviewer, Agency for Health Care Policy and Research, Health Services  
 Research Committee  
 1994 Consultant, Abt Associates, on USAID Niger health demand study  
 1993-1994 Consultant, Abt Associates, on USAID project modeling the physician allocation of  
 time in India  
 1992 Consultant, The World Bank, Human Resource Sector Review Mission,  
 Kyrgyzstan  
 1992-1993 Consultant, Abt Associates, on USAID project modeling the demand for health  
 services in Giza, Egypt

- 1992 Consultant, Abt Associates, on USAID funded Health Care Financing and Sustainability (HFS) Phase I Project examining Private-Public Interactions in Developing Countries
- 1991 Consultant, The World Bank, International Comparison of Health Financing and Delivery Systems in Developed Countries
- 1990, spring Visiting Scholar, University of California-Berkeley
- 1989 Consultant, USAID - Nairobi, Kenya, through John Snow, Inc.
- 1989 Consultant, The World Bank. Adult Ill Health
- 1987-1989 Research Associate, Center for Applied Social Sciences
- 1986-1989 Senior Economist, Health Data Institute, Lexington, MA
- 1984-1986 Economist, Health Data Institute, Lexington, MA
- 1984 Consultant, USAID - Cairo
- 1982 Consultant, U.S. State Department
- 1979 Research Assistant, M.I.T. Energy Lab, Prof. Martin B. Zimmerman
- 1979 Research Assistant, M.I.T. Energy Lab, Prof. Richard Schmalensee
- 1978 Research Fellow, Federal Reserve Bank of Boston, Richard Syron
- 1976 Research Assistant, First National Bank of Boston, Dr. James Howell
- 1975 Research Assistant, Massachusetts Energy Policy Office; Dr. Henry Lee
- 1974 Intern, New England Congressional Caucus, Wash. DC

## PUBLICATIONS

1. Andriola, Corinne, Randall P Ellis, Jeffrey J Siracuse, Alex Hoagland, Tzu-Chun Kuo, Heather E Hsu, Allan Walkey, Karen E Lasser, Arlene S Ash (2024). "A Novel Machine Learning Algorithm for Creating Risk-adjusted Payment Formulas" *JAMA Health Forum*, Apr 5;5(4):e240625. [doi.org/10.1001/jamahealthforum.2024.0625](https://doi.org/10.1001/jamahealthforum.2024.0625).
2. van Kleef, Richard C., Mieke Reuser, Thomas G. McGuire, John Armstrong, Konstantin Beck, Shuli Brammli-Greenberg, Randall P. Ellis, Francesco Paolucci, Erik Schokkaert, Juergen Wasem, (2024) "Scope and Incentives for Risk Selection in Health Insurance Markets With Regulated Competition: A Conceptual Framework and International Comparison." *Medical Care Research and Review*. 2024;0(0). [doi:10.1177/10775587231222584](https://doi.org/10.1177/10775587231222584)
3. Acquatella, Angelique, Tianxu Chen, Randall P Ellis, and Taylor Watson (forthcoming). "Provider Payment Systems and Incentives" in Stella R. Quah, (Ed.) *International Encyclopedia of Public Health*, Third Edition.
4. Ellis Randall P, Alex Hoagland, and Angelique Acquatella. (2023) "Managed competition in the United States: How well is it promoting equity and efficiency?" *Health Economics, Policy and Law*. Published online 2024:1-15. [doi:10.1017/S174413312300035X](https://doi.org/10.1017/S174413312300035X)
5. Ellis, Randall P., Heather E. Hsu, Jeffrey J. Siracuse, Allan J. Walkey, Karen E. Lasser, Brian C. Jacobson, Corinne Andriola, Alex Hoagland, Ying Liu, Chenlu Song, Tzu-Chun Kuo, and Arlene S. Ash (2022) "Development and Assessment of a New Framework for Disease Surveillance, Prediction, and Risk Adjustment: The Diagnostic Items Classification System" *JAMA Health Forum*. vol. 3, no. 3, pp. e220276-e220276. [doi.org/10.1001/jamahealthforum.2022.0276](https://doi.org/10.1001/jamahealthforum.2022.0276)
6. Nishijima, Marislei, Randall P. Ellis, and Regina C. Cati (2022). "Primary healthcare effects of a well-designed anti-corruption program." *World Development Perspectives*. 25: 100399. [doi.org/10.1016/j.wdp.2022.100399](https://doi.org/10.1016/j.wdp.2022.100399)
7. Siracuse, Jeffrey J., Jonathan Woodson, Randall P. Ellis, Alik Farber, Scott R. Levin, Elizabeth G. King, Thomas W. Cheng, and Jayakanth Srinivasan. (2022). "Treatment of Chronic Limb-Threatening Ischemia in the Commercially Insured Younger Population."

- Journal of Vascular Surgery* 75, no. 6 (2022): e204-e205.  
<https://doi.org/10.1016/j.jvs.2022.03.439>
8. Siracuse, Jeffrey J., Jonathan Woodson, Randall P. Ellis, Alik Farber, Sean P. Roddy, Bindu Kalesan, Scott R. Levin, Nicholas H. Osborne, and Jayakanth Srinivasan. (2021) "Intermittent claudication treatment patterns in the commercially insured non-Medicare population." *Journal of Vascular Surgery* 74, no. 2 (2021): 499-504.  
<https://doi.org/10.1016/j.jvs.2020.10.090>
  9. Ellis, Randall P, Heather E. Hsu, Chenlu Song, Tzu-Chun Kuo, Bruno Martins, Jeffrey J. Siracuse, MD, Ying Liu, Arlene S. Ash, (2020) "Diagnostic Category Prevalence in 3 Classification Systems Across the Transition to the International Classification of Diseases, Tenth Revision, Clinical Modification" *JAMA Network Open*. April 8. 3(4), e202280-e202280. <https://doi:10.1001/jamanetworkopen.2020.2280>.
  10. Walter Angela W, Randall P Ellis, Yiyang Yuan (2019) "Health care utilization and spending among privately insured children with medical complexity." *Journal of Child Health Care* 23(2):213-231 Jun 2019 <https://doi.org/10.1177/1367493518785>.
  11. Ellis, Randall P., Bruno Martins, and Sherri Rose (2018) "Risk adjustment for health plan payment." Chapter 3 in Thomas G. McGuire and Richard C. van Kleef (eds.) *Risk Adjustment, Risk Sharing and Premium Regulation in Health Insurance Markets: Theory and Practice*. Elsevier Press. <https://doi.org/10.1016/B978-0-12-811325-7.00003-8>
  12. Layton, Timothy J., Randall P. Ellis, Thomas G. McGuire, and Richard C. van Kleef (2018) "Evaluating the performance of health plan payment systems." Chapter 5 in Thomas G. McGuire and Richard C. van Kleef (eds.) *Risk Adjustment, Risk Sharing and Premium Regulation in Health Insurance Markets: Theory and Practice*. Elsevier Press. <https://doi.org/10.1016/B978-0-12-811325-7.00005-1>
  13. Walter, Angela Wangari, Randall P. Ellis and Yiyang Yuan (2018) "Utilization, spending and financial risk among privately-insured families of children with medical complexity." *Journal of Child Health Care*. <https://doi.org/10.1177/1367493518785778>
  14. Ellis, Randall P., Bruno Martins, and Wenjia Zhu (2017) "Demand elasticities and service selection incentives among competing private health plans." *Journal of Health Economics*. 56: 352-367. <https://doi.org/10.1016/j.jhealeco.2017.09.006>
  15. Layton, Timothy J., Randall P. Ellis, Thomas G. McGuire, and Richard C. van Kleef (2017) "Measuring efficiency of health plan payment systems in managed competition health insurance markets" (2017)." *Journal of Health Economics*. 56: 237-255.  
<https://doi.org/10.1016/j.jhealeco.2017.05.004>
  16. Ellis, Randall P., Bruno Martins and Wenjia Zhu (2017) "Health care demand elasticities by type of service." *Journal of Health Economics*. 55, pp.232-243.  
<https://doi.org/10.1016/j.jhealeco.2017.07.007>
  17. Ash, Arlene S., Eric O. Mick, Randall P. Ellis, Catarina I. Kiefe, Jeroan J. Allison, Melissa A. Clark, (2017). "Social Determinants of Health in Managed Care Payment Formulas" *Journal of the American Medical Association – Internal Medicine*. Published online August 07, 2017. <https://doi:10.1001/jamainternmed.2017.3317>.
  18. Ellis, Randall P., Sara S. Bachman, Hui Ren Tan (2017) "Refining our Understanding of Value-Based Insurance Design and High Cost Sharing on Children," *Pediatrics*. May, 139, S136-145. DOI: [10.1542/peds.2016-2786H](https://doi.org/10.1542/peds.2016-2786H).
  19. Ellis, Randall P. and Wenjia Zhu, (2016) "Health Plan Type Variations in Spells of Health Care Treatment," *American Journal of Health Economics*. Fall, 2(4): 399-430.  
[https://doi.org/10.1162/AJHE\\_a\\_00056](https://doi.org/10.1162/AJHE_a_00056)
  20. Montz, Ellen, Tim Layton, Alisa B. Busch, Randall P. Ellis, Sherri Rose, and Thomas G. McGuire. (2016) "Risk-Adjustment Simulation: Plans May Have Incentives To Distort Mental Health And Substance Use Coverage." *Health Affairs*. (June) 35:6 1022-1028.  
<https://doi.org/10.1377/hlthaff.2015.1668>

21. Ash, Arlene S., and Randall P. Ellis. (2016) "Commentary on 'Comparison of the properties of regression and categorical risk-adjustment models'" *Journal of Ambulatory Care Management*. April/June, 39(2):166-170. DOI:10.1097/JAC. DOI:10.1097/JAC.000000000000143
22. Ellis, Randall P. Bruno Martins, and Michelle McKinnon Miller (2016) "Provider Payment Methods and Incentives," in Quah, S.R. (eds.) *International Encyclopedia of Public Health* (Second edition). <https://doi.org/10.1016/B978-0-12-803678-5.00362-3>
23. Cid, Camilo, Randall P. Ellis, Verónica Vargas, Juergen Wasem, Lorena Prieto. (2016) "Global risk-adjusted payment models," in Richard Scheffler, (ed) *Handbook of Global Health Economics and Public Policy*. 11(1):311-362. [https://doi.org/10.1142/9789813140493\\_0006](https://doi.org/10.1142/9789813140493_0006).
24. Chen, Jing, Randall P. Ellis, Katherine H. Toro, and Arlene S. Ash. (2015) "Mispricing in the Medicare Advantage risk adjustment model." *INQUIRY: The Journal of Health Care Organization, Provision, and Financing*, 52, p.0046958015583089. doi: 10.1177/0046958015583089
25. Ellis, Randall P., Shenyi Jiang, and Willard G. Manning. (2015) Optimal health insurance for multiple goods and time periods. *Journal of Health Economics*. <http://dx.doi.org/10.1016/j.jhealeco.2015.01.007>
26. Ellis, Randall P., Tianxu Chen, and Calvin E. Luscombe. (2014) "Comparisons of Health Insurance Systems in Developed Countries" In Anthony Culyer, *Encyclopedia of Health Economics*. Elsevier Press. [https://blogs.bu.edu/ellisrp/files/2013/04/2013\\_EllisChenLuscombe\\_Comparisons\\_EHE\\_20130425b.pdf](https://blogs.bu.edu/ellisrp/files/2013/04/2013_EllisChenLuscombe_Comparisons_EHE_20130425b.pdf)
27. Ellis, Randall P., and Timothy Layton (2014) "Risk Selection and Risk Adjustment." In Anthony Culyer, *Encyclopedia of Health Economics Elsevier Press*. <https://doi.org/10.3390/ijerph10115299>
28. Ellis, Randall P. and Juan Gabriel Fernandez (2013) "Risk Selection, Risk Adjustment and Choice: Concepts and Lessons from the Americas", *International Journal of Environmental Research and Public Health*. 2013, 10, 5299-5332. <https://doi.org/10.3390/ijerph10115299>
29. Vats, Sonal, Arlene S. Ash and Randall P. Ellis. (2013) "Bending the Cost Curve? Results from a Comprehensive Primary Care Payment Pilot." *Medical Care*. 51(11):964-969. DOI: 10.1097/MLR.0b013e3182a97bdc
30. Ellis, Randall P., Denzil G. Fiebig, Meliyanni Johar, Glenn Jones, Elizabeth Savage (2013) "Explaining Health Care Expenditure Variation: Large Sample Evidence Using Linked Survey and Health Administrative Data" *Health Economics*. 22(9): 1093-1110. <https://doi.org/10.1002/hec.2916>
31. Ellis, Randall P., Shenyi Jiang, and Tzu-Chun Kuo (2013) "Does service-level spending show evidence of selection across health plan types?" *Applied Economics*. 45(13): 1701-1712. <https://doi.org/10.1080/00036846.2011.636023>
32. Ellis, Randall P. (2012), Five Questions for Health Economists. *International Journal of Health Care Finance and Economics*. 12(3):217–233. <https://www.jstor.org/stable/23279868>
33. Ash, Arlene, and Randall P. Ellis (2012) "Risk-Adjusted Payment and Performance Assessment for Primary Care." *Medical Care*. Aug. 2012 50(8):643–53 doi: 10.1097/MLR.0b013e3182549c74
34. Ellis, Randall P., and Arlene S. Ash (2012) "Payments in Support of Effective Primary Care for Chronic Conditions." *Nordic Economic Policy Review*. 2:191-210. [https://blogs.bu.edu/ellisrp/files/2012/08/2012-EllisAsh\\_PracticalPCMHPayment\\_NEPR\\_20120815.pdf](https://blogs.bu.edu/ellisrp/files/2012/08/2012-EllisAsh_PracticalPCMHPayment_NEPR_20120815.pdf)

35. Ellis, Randall P. (2012) "Risk Adjustment" in Steven N. Durlauf and Lawrence E. Blume (eds.) *The New Palgrave Dictionary of Economics*. Palgrave MacMillan. 04 April 2012. [https://blogs.bu.edu/ellisrp/files/2012/01/Ellis\\_Palgrave-Dictionary-of-Economics\\_Risk-Adjustment\\_20111019.pdf](https://blogs.bu.edu/ellisrp/files/2012/01/Ellis_Palgrave-Dictionary-of-Economics_Risk-Adjustment_20111019.pdf)
36. Eggleston, Karen N, Randall P. Ellis, and Mingshan Lu, (2011) "Risk Adjustment and Prevention" *Canadian Journal of Economics/Revue canadienne d'économique*. 45, no. 4 (2012): 1586-1607. <https://doi.org/10.1111/j.1540-5982.2012.01747.x>
37. Song Zirui S, Dana G Safran, Bruce E Landon, Yulie He, Randall P Ellis, Robert E Mechanic, Mathew P Day, and Michael E. Chernew (2011) "Health Care Spending and Quality in Year 1 of the Alternative Quality Contract" *New England Journal of Medicine*. July 13, 2011 (10.1056/NEJMsa1101416) DOI: [10.1056/NEJMsa1101416](https://doi.org/10.1056/NEJMsa1101416)
38. Song, Zirui, Yulie He, Randall P. Ellis, Bruce E Landon, Dana G. Safran, Robert E Mechanic, and Michael E Chernew, (2011) Effect of Global Payment on Health Care Spending in Massachusetts: Implications for the Design of Accountable Care Organizations in Medicare. *Gerontologist*, November 51: 229-229. Supplement 2 (Abstract). DOI: [10.1056/NEJMsa1101416](https://doi.org/10.1056/NEJMsa1101416)
39. Ellis, Randall P. and Ching-to Albert Ma. (2011) "Health Insurance, Cost Expectations, and Job Turnover." *Health Economics*. January 20(1):27–44. <https://doi.org/10.1002/hec.1571>
40. Ellis, Randall P. and Michelle M. Miller (2009) "Provider payment and provider incentives" in Guy Carrin, Kent Buse, Harald Kristian Heggenhougen, Stella R. Quah (eds.) *Health Systems Policy, Finance, and Organization*, (New York: Elsevier) (reprinted from *Encyclopedia of Public Health*, 2008) [https://people.bu.edu/ellisrp/EllisPapers/2007\\_EllisMiller\\_EncyclopediaPublicHealth\\_ProviderPayment.pdf](https://people.bu.edu/ellisrp/EllisPapers/2007_EllisMiller_EncyclopediaPublicHealth_ProviderPayment.pdf)
41. Ellis, Randall P. and Michelle M. Miller (2008) "Provider payment and provider incentives" in K.Heggenhougen and G.Carrin (eds.), *Encyclopedia of Public Health*, (New York: Elsevier). DOI:[10.1016/B978-012373960-5.00173-8](https://doi.org/10.1016/B978-012373960-5.00173-8)
42. Ellis, Randall P. and Elizabeth Savage (2008) "Run for cover now or later? The impact of premiums, threats and deadlines on supplementary private health insurance in Australia." *International Journal of Health Care Finance and Economics*. DOI [10.1007/s10754-008-9040-4](https://doi.org/10.1007/s10754-008-9040-4)
43. Ellis, Randall P. (2008) Risk adjustment and predictive modeling: Concepts and applications, in Lu, Mingshan and Egon Jonsson. (eds.) *Financing Health Care: New Ideas for a Changing Society*. Wiley-VCH publishers Weinheim, Germany. 177-222. DOI:[10.1002/9783527611294.ch8](https://doi.org/10.1002/9783527611294.ch8)
44. Ellis, Randall P. and Willard G. Manning (2007) Optimal Health Insurance for Prevention and Treatment. *Journal of Health Economics*. 26: 1128–1150. <https://doi.org/10.1016/j.jhealeco.2007.09.002>
45. Ellis, Randall P. and Marian Vidal-Fernández (2007) Activity-based payments and reforms of the English hospital payment system. *Health Economics, Policy and Law*. 2: 435–444. <https://doi.org/10.1017/S1744133107004276>
46. Ellis, Randall P. and Thomas G. McGuire (2007) "Predictability and Predictiveness in Health Care Spending" *Journal of Health Economics*. 26: 25–48 <https://doi.org/10.1016/j.jhealeco.2006.06.004>
47. Antioch, Kathryn M., Randall P Ellis, Steve Gillett, Daniel Borovnicar, and Ric P Marshall (2007) "Risk Adjustment Policy Options for Casemix Funding: International Lessons in Financing Reform." *European Journal of Health Economics*. 8(3): 195-212. DOI [10.1007/s10198-006-0020-7](https://doi.org/10.1007/s10198-006-0020-7).
48. Zhao, Yang, Arlene S. Ash, Randall P. Ellis, John Z. Ayanian, Gregory C. Pope, Bruce Bowen, and Lori Weyuker (2005) "Predicting Pharmacy Costs and Other Medical Costs

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4194896/>
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<https://doi.org/10.1023/A:1019711617120>
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<https://doi.org/10.1002/hec.661>
  54. Ash, Arlene, Yang Zhao, Randall P. Ellis, and Marilyn Schlein Kramer (2001) "Finding Future High-Cost Cases: Comparing Prior Cost versus Diagnosis-based Methods" *Health Services Research*.26(6) Part II December 194-206.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1383615/>
  55. Ellis, Randall P. (2001) "Formal Risk Adjustment by Private Employers" *Inquiry* 38(3) Fall, 299-309. [https://doi.org/10.5034/inquiryjrn1\\_38.3.299](https://doi.org/10.5034/inquiryjrn1_38.3.299)
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  57. Zhao, Yang, Randall P. Ellis, Arlene S. Ash, David Calabrese, John Ayanian, James P. Slaughter, Lori Weyuker, and Bruce Bowen. (2001) "Measuring Population Health Risks Using Inpatient Diagnoses and Outpatient Pharmacy Data" *Health Services Research*. 26(6) Part II December 180-193.  
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[https://doi.org/10.1016/S1574-0064\(00\)80173-0](https://doi.org/10.1016/S1574-0064(00)80173-0)
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  60. Ash, Arlene S., Randall P. Ellis, Gregory C. Pope, John Z. Ayanian, David W. Bates, Helen Burstin, L.I. Iezzoni, E. McKay, W. Yu, (2000) "Using Diagnoses to Describe Populations and Predict Costs." *Health Care Financing Review*, Spring 21(3): 7-28.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4194673/>
  61. Khandker, Rahaul K, Dulski Jane D, Kilpatrick Jeffrey B, Ellis Randall P., Mitchell Janet B, Baine, William B. (2000) Decision model and cost-effectiveness analysis of colorectal cancer screening and surveillance guidelines for average-risk adults. *International*

- Journal of Technology Assessment in Health Care*. 16(3):799-810.  
<https://doi.org/10.1017/S0266462300102077>
62. Chawla, Mukesh, and Randall P. Ellis (2000) "Demand Side Analysis of Health Care Financing and Delivery in Niger." *Health Policy and Planning*. 15(1):76-84.  
<https://doi.org/10.1093/heapol/15.1.76>
  63. Ellis, Randall P., Moneer Alam, and Indrani Gupta, (2000) "Health Insurance in India: Prognosis and Prospectus." *Economics and Political Weekly*, January 22, pp 207-217.  
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### Book Review/Comments

97. Ellis, Randall P., Comment on "Sustainable Health Financing for COVID -19 Preparedness and Response in Asia and the Pacific" *Asian Economic Policy Review*. 17(1):157-158 Jan 2022. <https://doi.org/10.1111/aepr.12360>
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### Working Papers

99. Ash, Arlene S, Matthew J Alcusky, Randall P Ellis, Meagan J Sabatino, Frances E Eanet, Eric O. Mick EO. "Fixing Primary Care Through Payment Reform". Under submission.
100. Hoagland, Alex and Randall P Ellis (2023) "Individuals, Children, Aged 55+, Risk-Equalization, and Equity (ICARE): A Feasible US Transition to a Better Health Insurance System: April 18, 2023
101. Hoagland, Alexander Randall P Ellis, Karen E. Lasser, Heather E Hsu, Corinne Andriola, Tzu-Chun Kuo, Jeffrey J Siracuse, Allan Walkey, Arlene S Ash, (2021) "Incorporating Acuity, Laterality, Timing, and Other Diagnostic Modifiers into Sophisticated Risk Adjustment Formulas" BU working paper. current draft: July 7, 2021.
102. Chen, Danrong, Yuhang Chen, Ying Liu, Maxim Slobodchikov, Sarah L Ma, and Randall P. Ellis (2020) "Modeling school openings, vacations, and closings dates" working paper.
103. Andriola, Corinne, Tzu-Chun Kuo, and Randall P Ellis (2019) "Pooling Cross Product Matrices to Maintain Confidentiality While Enabling Data Sharing and Enhanced Linear Predictive Models", October 2019.
104. Ellis, Randall P, and Izabela Jelovac, (2018) "Provider agency, health care innovation, pricing, and regulations." May, 2018.
105. Vidal-Fernandez, Marian, Denise Doiron, and Randall P. Ellis (2017) "The Effects (?) of Artificially Fluoridated Water on Birth Outcomes." April.
106. Luo, Siyi, Wenjia Zhu, and Randall P Ellis (2017), "An Iterative Approach to Estimation with Multiple High-Dimensional Fixed Effects: Controlling Simultaneously for Patients, Providers and Counties." June.
107. Ellis, Randall P. (2016) "The US Should Ban or Heavily Tax Weapons Designed for Mass Shootings." August.
108. Ellis, Randall P., Arlene S. Ash, and Gabriel Fernandez. (2014) "Good-Enough" Risk Adjustment Models for Physician Payment and Performance Assessment.
109. Ellis, Randall P, and Mookim, Pooja G. (2013) "Cross-Validation Methods for Risk Adjustment Models"

110. Ash, Arlene S., Randall P. Ellis, Andrea Kronman, and Allan H. Goroll (2012) "Matching Payments to Patient Needs: Advancing a Fundamental Payment Reform for Primary Care" January.
111. Ash, Arlene S., and Randall P. Ellis (2011) Risk-Based Comprehensive Payment for the Patient-Centered Medical Home: Building and Testing a Partial Capitation Model. June.
112. Ash, Arlene S. and Randall P. Ellis (2011) Risk-Based Bonus Payments for the Patient-Centered Medical Home: Findings in Support of a Partial Capitation Innovation. June.
113. Ellis Randall P, and Arlene S Ash (2011) "A Practical Multi-Payer Payment System for the Patient-Centered Medical Home: Implementing a Partial Capitation Innovation" June.
114. Ash, Arlene S., Randall P. Ellis, Andrea Kronman, and Allan H. Goroll. (2010) "Primary Care Financing Matters: A Roadmap for Reform."
115. Aragao, Filipa, and Randall P. Ellis, (2010) "Death spirals, switching costs, and health plan premium payments. October.
116. Mookim, Pooja G., Ellis, Randall P., and Kahn-Lang, Ariella, (2010) "Infertility Treatment, Assisted Reproduction Technologies, and Delivery Outcomes: How Important is Selection?"
117. Ellis, Randall P. and Manual Garcia Goni (2008) "Selection in Medicare HMOs: Absence of evidence from aged versus disabled payment rates."
118. Ellis, Randall P., and Germano M. Mwabu, (2004) "The demand for outpatient medical care in rural Kenya," May
119. Ellis, Randall P. and Ipek Gurol Urganci (2004) "Health plan entry and exit in the Medicare managed care market." February.
120. Gurol, Ipek, and Randall P. Ellis (2004) "Medicare managed care choice of benefits and premiums: competition and selection incentives really matter," February.
121. Ellis, Randall P. (2002) "Using fuzzy diagnoses for risk adjustment" April.
122. Ellis, Randall P. and Vanessa Azzone, (1998) "OLS, loglinear and two part models of health expenditure: What do the data tell us?" Boston University working paper, October.
123. Ellis, Randall P., (1997) "Health premium payment systems for state employees" November.
124. Ellis, Randall P., Gregory C. Pope, Lisa I. Iezzoni, John Z. Ayanian, David W. Bates, Helen Burstin, and Arlene S. Ash (1996) "Risk adjustment of Medicare payments using the hierarchical coexisting conditions model." July.
125. Ellis, Randall P. (1993) "Hospital cost function estimation when firms may not try to minimize total costs" September.
126. Bobadilla, Jose-Luis, and Randall P. Ellis, (1992) "Health transition in Kyrghyzstan" December.
127. Ellis, Randall P., (1986) "Employee choice of health plan in a multi-FFS, Multi-HMO setting." December.
128. Ellis, Randall P., (1985) "Episodes in mental health: issues and literature review" April 15,
129. Ellis, Randall P., and Thomas G. McGuire (1983) "Cost-sharing and the demand for ambulatory mental health services: interpreting the results of the Rand health insurance study" March.
130. Ellis, Randall P., (1980) "Optimal pricing and investment decisions by electric utilities under demand uncertainty" M.I.T. Energy Laboratory Working Paper No. MIT-EL 80-048WP, January.

**Blog site**

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**Selected Reports**

131. Ash, Arlene S, Eric Mick, Jianying Zhang, Randall P Ellis, Frances E Eanet, Judith Steinberg, (2016) "UMass Risk Adjustment Project for MassHealth Payment and Care Delivery Reform" June 2016 Report June 13.
132. Pope, Gregory C., John Kautter, Eric Olmsted, Randall P. Ellis, Arlene S. Ash, John Z. Ayanian, and Lisa I. Iezzoni, (2004) "The CMS-HCC model for risk adjustment of Medicare capitation payments." Research Triangle Inc. Final report to the Centers for Medicare & Medicaid Services under contract no. 500-00-0030, T.O. No. 4. December.
133. Pope, Gregory C., John Kautter, Arlene S. Ash, Randall P. Ellis, John Z. Ayanian, David W. Bates, Lisa I. Iezzoni, Edward Marcantonio. (2001) "Parsimonious Risk Adjustment Models for Medicare." Final Report to the Centers for Medicare and Medicaid Services Health Economics Research, December.
134. Pope, Gregory C., Randall P. Ellis, Arlene S. Ash, John Z. Ayanian, David W. Bates, Helen Burstin, Lisa I. Iezzoni, Edward Marcantonio, Bei Wu, Ph.D. (2000) "Diagnostic Cost Group Hierarchical Condition Category Models for Medicare Risk Adjustment" Final Report to Health Care Financing Administration, December.
135. Pope, Gregory C., C. Fen Liu, Randall P. Ellis, Arlene S. Ash, Lisa Iezzoni, John Z. Ayanian, David W. Bates, Helen Burstin, Killard Adamache, and Boyd Gilman, (1999) "Principal Inpatient Diagnostic Cost Group Models for Medicare Risk Adjustment, Final Report, HCFA, Health Economics Research, Waltham MA, February.
136. Ash, Arlene S., Randall P. Ellis, Wei Yu, et al. (1998) "Risk Adjusted Payment Models for the Non-Elderly." Final report, for Health Care Financing Administration, June.
137. Pope, Gregory C., Randall P. Ellis, C. Fen Liu, Arlene S. Ash, Lisa Iezzoni, John Z. Ayanian, David W. Bates, Helen Burstin (1998) "Revised Diagnostic Cost Group (DCG)/Hierarchical Coexisting Conditions (HCC) Models for Medicare Risk Adjustment." Final Report, HCFA, Health Economics Research, Waltham, MA , February.
138. Khandker, Rahaul K., Jane D.Dulski, Jeffrey B. Kirkpatrick, Randall P. Ellis, and Janet B. Mitchell, (1996) "Cost Effectiveness of Colorectal Cancer Screening and Surveillance Guidelines." Final Report. Health Economics Research, September 19.
139. Ellis, Randall P., Gregory C. Pope, Lisa I. Iezzoni, et al. (1996) "Diagnostic Cost Group (DCG) and Hierarchical Coexisting Conditions and Procedures (HCCP) Models for Medicare Risk Adjustment." Final Report, Health Economics Research, for Health Care Financing Administration, April.
140. Ellis Randall P., and Mark Takayesu, (1995) "ADM Treatment, Health Plan Payments, and Work Disability in a Large Private Employer" for SAMHSA, October.
141. Ellis, Randall P., and Mitchell, Janet B. (1993) "Beneficiary Use of Services Over Time." Final Report, Center for Health Economics Research, for Health Care Financing Administration, July.
142. Ellis, Randall P., and Mukesh Chawla, (1993) "Public and Private Interaction in the Health Sector in Developing Countries," for Health Financing and Sustainability Project, Abt Associates. Revised: February.
143. Bobadilla, Jose-Luis, and Randall P. Ellis. (1992) "Health Sector Review, Republic of Kyrgyzstan." for The World Bank, November.
144. Ellis, Randall P., and Elizabeth Stephenson, (1992) "Analysis of the Demand for Inpatient and Outpatient Care From Imbaba Hospital, Cairo, Egypt." for Egypt Cost Recovery for Health Project. Abt Associates, November.
145. Lee, A. James, Randall P. Ellis, and Angela Merrill, (1992) "Focused Analyses of Post Acute Care (PAC) Use for Selected DRGs." Center for Health Economics Research, for Health Care Financing Administration, July.

146. Ellis, Randall P., (1992) "Drug Abuse Treatment Patterns Before and After Managed Care," Boston University Working Paper, report prepared for the National Institute on Drug Abuse.
147. Ellis, Randall P., (1990) "Time Dependent DCG Model." for Health Care Financing Administration, June.
148. Ellis, Randall P., Jose M. Kirigia, and Germano Mwabu. (1990) "Demographic Patterns and Health Care Utilization for a Sample of Households in South Nyanza, Kenya." for U.S. AID/Nairobi, through John Snow, Inc., May.
149. Cromwell, Jerry, Brooke Harrow, Thomas G. McGuire, and Randall P. Ellis, (1990) "TEFRA Psychiatric Hospital and Unit Peer Group and Case Outlier Analyses, Task 3: Final Report," submitted under contract HHS 100-88-037, from the Assistant Secretary of Planning and Evaluation, Health Economics Research, January.
150. Huber, Joyce, Benson Obonyo, and Randall P. Ellis, (1989) "Implementation Issues for Health Care Cost-Sharing in Kenya. Volume I: Ensuring Access to Care." for U.S. AID/Nairobi, through John Snow, Inc. November.
151. Sharif, S. K., and Randall P. Ellis, (1989) "Implementation Issues for Health Care Cost-Sharing in Kenya. Volume II: Referral Patterns." for U.S. AID/Nairobi, through John Snow, Inc. November
152. Sarnoff, Rhonda, Daniel J. Byrne, and Randall P. Ellis, (1989) "Implementation Issues for Health Care Cost-Sharing in Kenya. Volume III: Monitoring and Evaluation." for U.S. AID/Nairobi, through John Snow, Inc. November.
153. Ash, Arlene S., Randall P. Ellis, and Lisa Iezzoni. (1989) "Clinical Refinements to the Diagnostic Cost Group Model." prepared for the Health Care Financing Administration, September.
154. Ellis, Randall P., and Arlene S. Ash. (1989) "The Continuous Update Diagnostic Cost Group Model." prepared for the Health Care Financing Administration, June
155. Ellis, Randall P., and Arlene S. Ash. (1988) "Refining the Diagnostic Cost Group Model: A Proposed Modification to the AAPCC for HMO Reimbursement." prepared for the Health Care Financing Administration, Boston University, February.
156. Freiman, Mark P., Thomas G. McGuire, Randall P. Ellis, Ann. M. Hendricks, Janet B. Mitchell, C. Carter, Brooke S. Harrow, and A. G. Stone. (1988) "An Analysis of Options for Including Psychiatric Inpatient Settings in a Prospective Payment Setting." Waltham, MA, Health Economics Research, Inc. June.
157. Payne, Susan M., Randall P. Ellis, Christopher J. Ruhm, Lisa I. Iezzoni, and Kim A. Dukes. (1987) "Policy Issues in Developing Pediatric Prospective Payment Systems" prepared for the Health Care Financing Administration, October.
158. Ellis, Randall P., and Paul Levy. (1975) "The Economics of Nuclear Power: A New England Perspective." Massachusetts Energy Policy Office, December.

#### GRANTS SUPPORT

1. "Imperfect Information, Energy Efficiency, and Appliance Choice," R. Ellis, P.I. National Science Foundation, 1982-83, \$15,800
2. "Reimbursement Policy and Cost Effective Mental Health Care," C. Horgan, P.I., Brandeis, T. McGuire, Co-P.I., R. Ellis, coinvestigator Pew Charitable Trust, 1984-87, B.U. Subcontract: \$197,760
3. "Modifying Outlier Payment Formulas in Medicare's PPS," T. McGuire, Project Leader, R. Ellis, coinvestigator, Health Care Financing Administration, 1986-88, \$109,054.
4. "Issues Raised by Case-Based Reimbursement of Pediatric Hospitals," R. Ellis and S. Payne, Co-Project Leaders Health Care Financing Administration, 1986-88, \$64,997.
5. "Updating the Diagnostic Cost Group (DCG) Model," R. Ellis, Project Leader, Health Care Financing Administration, 1987-88, \$114,533.

6. "Cost-Sharing and Payment Policy for Mental Health," (New Investigator Research Award), R. Ellis, P.I. National Institute for Mental Health, 1987-89, \$132,680
7. "Center for the Study and Analysis of Alcohol, Drug and Mental Health (ADM) Financing, Reimbursement, and Coverage Issues," S. Wallack, P.I., Brandeis, T. McGuire, Co-PI, R. Ellis, coinvestigator Alcohol, Drug Abuse and Mental Health Administration, 1988-93, B.U subcontract: \$1,597,118
8. "Continuous Update DCG Model," R. Ellis, Project Leader Health Care Financing Administration, 1988-89, \$79,994
9. "Clinical Refinements to the DCG Model," A. Ash, Project Leader, R. Ellis, coinvestigator, Health Care Financing Administration, 1988-89, \$79,995
10. "A Time-Dependent DCG Reimbursement Model for Medicare HMO Enrollees," R. Ellis, Project Leader Health Care Financing Administration, 1989-90 \$66,111
11. "Using Time Since Discharge and Outpatient Diagnostic Data to Enhance the DCG Model," R. Ellis, project leader, Health Care Financing Administration, 1990-91, \$40,000.
12. "Beneficiary Use of Services Over Time," , R. Ellis, coinvestigator, Health Care Financing Administration, 1990-91, BU budget: \$17,914.
13. "Test Predictive Validity of Using Medicare Claims Data to Target High Cost Patients," F. Porell (Brandeis) P.I., R. Ellis, coinvestigator, Health Care Financing Administration, 1990-91 \$5,965.
14. "Scientific Review of Health Policy Research Consortium Deliverables," R. Ellis, project leader, Health Care Financing Administration, 1990-92, \$10,524.
15. "Changes in Patterns of Costs and Frequencies of Drug Abuse Treatment for a large private employer," R. Ellis, Project leader, National Institute on Drug Abuse. 1991-92, \$35,000.
16. "Effectiveness of drug abuse treatment for a large private employer," R. Ellis, Project leader, National Institute on Drug Abuse. 1992-93, \$33,000.
17. "Evaluating a Payment System for Psychiatric Discharges in New Hampshire Medicaid," Robert Wood Johnson Foundation, Thomas McGuire, P.I, R. Ellis, Co-P.I., 6/1/92-5/30/94, \$197,222.
18. "Competition and Health Plan Premium Determination," R. Ellis, P.I., Agency For Health Care Policy and Research, 7/1/94-6/28/96, \$153,561.
19. "Updating the Continuous DCG Model," R. Ellis, P.I., Health Care Financing Administration, 7/1/93-4/26/96, \$596,882.
20. "Risk Adjusted Payment Models for the Non-Elderly" A. Ash, PI; R. Ellis, Co-P.I., Health Care Financing Administration, 9/27/94-8/31/98, \$802,651.
21. "Health Plan Responses to Medicare HMO Premium Payments" R. Ellis P.I. Agency For HealthCare Research and Quality, 9/1/00-8/30/03, \$261,026.
22. "The Dynamics of Insurance Decisions, Industry Structure and Job Turnover" R. Ellis PI, a project funded as part of the Economic Research Initiative on the Uninsured", through University of Michigan, by the Robert Wood Johnson Foundation. 8/1/03-7/31/04. \$126,214.
23. "Project in support of German risk adjustment and service specific modeling." R. Ellis PI, Two projects funded by the German Medical Association (KBV) German Health Payment Commission, and DxCG, Inc. 10/1/04-9/30/07. \$139,460.
24. "Predicting Spending by Provider Specialty and Type of Service," R. Ellis PI, Project funded by DxCG, Inc. 9/1/2006-8/31/2007. \$39,989.
25. "Primary Care Payment Systems: feasible systems for rewarding providers for prevention and efficiency"; R. Ellis PI, Project funded by DxCG, Inc. 9/1/2007-8/31/2010. \$238,108.
26. "Developing a Risk Adjustment Model for Paying Patient-Centered Medical Home Practices" A Ash PI,R Ellis Co-PI. Project funded by The Commonwealth Fund, 12/1/2009-11/30/2011, \$329,000.
27. "Primary Care Payment System Design Issues" R. Ellis PI, Project funded by Verisk Health, Inc. 9/1/2010-8/31/2015. \$527,517.

28. "Using Risk Adjustment to Predict Within-and Across-Year Utilization and Disease Patterns"  
R. Ellis PI. Project funded by Verisk Health, Inc. 9/1/2015-2/27/2016, \$ 103,550.
29. "Advanced Risk Adjusters and Predictive Formulas for ICD-10 Based Risk Adjustment."  
R. Ellis, PI. Agency for HealthCare Research and Quality (AHRQ), 9/4/2018-6/30/2021,  
\$1,181,442.
30. "Systemic Bias Self-Assessment." Linh Tô (PI), Patricia Cortes and R. Ellis, (Co-PIs) Social  
Science Research Council. 9/1/2023-12/31/2024 \$197,764.

## ACADEMIC PRESENTATIONS

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|-----------------|--|
| March, 2023     | A Novel Machine Learning Algorithm for Creating Risk-adjusted Payment Formulas, <b>University of Newcastle</b> , Sydney Australia.   |
| March, 2023     | Systemic sexism, racism and nationality bias in US Academic Economics Departments, <b>Macquarie University</b> , Sydney Australia.   |
| March, 2023     | A Novel Machine Learning Algorithm for Creating Risk-adjusted Payment Formulas, <b>Macquarie University</b> , Sydney Australia.  |
| November, 2023  | The Role of Incentives at the Design Stage of Risk Adjusters: Do's and Don'ts. <b>International Symposium on Risk Equalization and the Role of Efficiency</b> , The Hague, Netherlands           |
| November 2023   | Evaluating the DXI-DCG Model for Different Outcomes, <b>Risk Adjustment Network</b> . The Hague, Netherlands.  |
| May, 2023       | A Novel Machine Learning Algorithm for Creating Risk-adjusted Payment Formulas, <b>Boston University</b> , School of Public Health.  |
| April, 2023     | A Novel Machine Learning Algorithm for Creating Risk-adjusted Payment Formulas, <b>Boston University</b> , Empirical Micro Workshop.   |
| March, 2023     | A Novel Machine Learning Algorithm for Creating Risk-adjusted Payment Formulas, <b>Rutgers University</b> , New Brunswick NJ.  |
| September, 2022 | DXI Software for ICD10 Risk Adjustment: Software Pitfalls, Solutions and Results, <b>Risk Adjustment Network</b> . Berlin Germany.   |
| July, 2022      | New Developments in Risk Adjustment: Creating incentives for cost control, quality, and fairness. <b>European Health Economics Association</b> , Oslo, Norway.                                   |
| April, 2022     | How might universal managed competition work for the US? <b>Risk Adjustment Network</b> , (Virtual)  |
| September, 2021 | Diagnostic Items: A New Framework for Disease Surveillance, Prediction, and Risk Adjustment. <b>Risk Adjustment Network</b> . Weggis Switzerland.  |
| September, 2021 | Incorporating Acuity, Laterality, Timing, and Other Diagnostic Modifiers into Risk Adjustment Formulas. <b>Risk Adjustment Network</b> . Weggis Switzerland.                                     |
| June, 2021      | Diagnostic Items: A New Framework for Disease Surveillance, Prediction, and Risk Adjustment. <b>American Society of Health Economics</b> . (Virtual)   |
| July, 2021      | Diagnostic Items: A New Framework for Disease Surveillance, Prediction, and Risk Adjustment. <b>International Health Economics Association</b> . (Virtual)                                       |
| January, 2021   | Diagnostic Items: A New Framework for Disease Surveillance, Prediction, and Risk Adjustment. <b>Paris School of Economics</b> , Hospinnomics. (Virtual)  |
| June, 2020      | Individuals, Children, Aged 55+, Risk-Equalization, and Equity (ICARE): A Feasible US Transition to a Better Insurance System. <b>American Society of Health Economics</b> . (Virtual)           |
| February 2020   | Individuals, Children, Aged 55+, Risk-Equalization, and Equity (ICARE): A Feasible US Transition to a Better Insurance System. <b>Harvard Medical School, Department of Health Care Policy</b> . |

- October, 2019 Diagnostic Category Prevalence and the Transition to ICD-10-CM. **Agency for Healthcare Research and Quality (AHRQ)**, Washington DC.
- September, 2019 Diagnostic Category Prevalence and the Transition to ICD-10-CM. **Risk Adjustment Network**, Annual conference, Portland ME
- September, 2019 Diagnostic Items: A New Framework for Disease Surveillance, Prediction and Risk Adjustment. **Risk Adjustment Network**, Annual conference, Portland ME
- March, 2019 Movie Theatre Popcorn Pricing, the Physician's Hippocratic Oath, and Health Care Innovation. **KU Leuven**, Leuven Belgium.
- March, 2019 Movie Theatre Popcorn Pricing, the Physician's Hippocratic Oath, and Health Care Innovation. **Harvard Medical School**, Boston MA.
- December, 2018 Movie Theatre Popcorn Pricing, the Physician's Hippocratic Oath, and Health Care Innovation. **Waseda University**, Tokyo, Japan.
- December, 2018 Keynote speaker, Health Care Payment and Health Care Insurance Systems. **1st Asian Workshop on Econometrics and Health Economics**, Kyoto, Japan
- December, 2018 Keynote speaker, Provider Payment. **1st Asian Workshop on Econometrics and Health Economics**, Kyoto, Japan
- December, 2018 Keynote speaker, Risk Adjustment and Risk Selection. **1st Asian Workshop on Econometrics and Health Economics**, Kyoto, Japan
- October, 2018 Movie Theatre Popcorn Pricing, the Physician's Hippocratic Oath, and Health Care Innovation. **Risk Adjustment Network**, Tel Aviv, Israel.
- October, 2018 Advanced Risk Adjusters and Predictive Formulas for ICD-10 Based Risk Adjustment. **Risk Adjustment Network**, Tel Aviv, Israel.
- May, 2018 Provider Agency, Health Care Innovation, Pricing, and Regulations, **European Health Economics Workshop**, Paris, France.
- May, 2018 Provider Agency, Health Care Innovation, Pricing, and Regulations, **Paris School of Economics**, Paris, France.
- May, 2018 Provider Agency, Health Care Innovation, Pricing, and Regulations, **Universidade Nova de Lisboa**, Lisbon, Portugal.
- May, 2018 Provider Agency, Health Care Innovation, Pricing, and Regulations, **Universitat Pompeu Fabra**, Barcelona, Spain.
- April, 2018 Provider Agency, Health Care Innovation, Pricing, and Regulations, **Public University of Navarra**, Pamplona, Spain
- March, 2018 Ten Strategies to Reduce HealthCare Spending by 50%, **University of Salamanca**, Salamanca, Spain
- March, 2018 Provider Payment, **Universitat Pompeu Fabra**, Barcelona, Spain
- March, 2018 Risk Adjustment and Risk Selection, **Universitat Pompeu Fabra**, Barcelona, Spain
- February, 2018 Health Care Payment and Optimal Insurance Systems, **Universitat Pompeu Fabra**, Barcelona, Spain
- February, 2018 Ten Strategies to Reduce HealthCare Spending by 50%, **GATE (Groupe d'Analyse et de Théorie Economique)**, Lyon, France
- November, 2017 Demand Elasticities and Service Selection Incentives among Competing Private Health Plans, **Boston College**, Boston MA
- September, 2017 Demand Elasticities and Service Selection Incentives among Competing Private Health Plans, **University of South Florida**, Tampa FL
- July, 2017 Risk Adjustment for Health Plan Payment, **International Health Economics Association**, 22nd World Congress, Boston MA
- July, 2017 (chair and panel organizer) The Affordable Care Act Past, Present and Future: Tense. **International Health Economics Association**, 22nd World Congress, Boston MA



- June, 2017 Estimation and Implementation of Risk Adjustment Models for Health Plan Payment, **Massachusetts Health Policy Commission**, Boston MA
- October, 2016 Demand Elasticities and Service Selection Incentives among Competing Private Health Plans, **Risk Adjustment Network**. Berlin, Germany.
- July, 2016 The US Health Care System, Recent Reforms, and Ten Strategies for Reducing US Health Care Costs by 50%. **Observatoire Européen de la Protection Sociale**, visiting French delegation, Questrom School of Business, Boston University
- June, 2016 Demand Elasticities and Service Selection Incentives among Competing Private Health Plans, **American Society of Health Economists**. Philadelphia, PA.
- May, 2016 Health Care Demand Elasticities by Type of Service. Nuffield College, **Oxford University**. UK.
- March, 2016 Health Care Demand Elasticities by Type of Service. **University of Chicago**, Harris School. Chicago IL.
- December 2015 An Iterative Approach to Estimation with Multiple High-Dimensional Fixed Effects: Controlling Simultaneously for Patients, Providers and Counties. **Annual Health Econometrics Workshop**, Honolulu HI.
- October 2015 Health Plan Type Variations in Spells of Health Care Treatment, **International Conference on Health Policy Statistics**, American Statistical Association, Providence RI.
- September 2015 Smart Data: Challenges for Health Economics, **Hospinnomics Conference**. Paris France.
- July 2015 Health Plan Type Variations in Spells of Health Care Treatment, **University of Bologna**, Bologna, Italy.
- June 2015 Health Plan Type Variations in Spells of Health Care Treatment, **International Health Economics Association** (iHEA), Milan Italy.
- September 2014 What Have We Learned about Risk Sharing? **Hospinnomics Conference**. Paris France.
- September 2014 Lectures on Payments and Incentives from the US. **Monitor/National Health Service**, London, UK.
- September 2014 Variation in Pricing, Treatment, Coding Intensity and Patient Severity in Spells of Health Care Treatment. **Risk Adjustment Network**, Delft, Netherlands.
- June 2014 Variation in Pricing, Treatment, Coding Intensity and Patient Severity in Spells of Health Care Treatment. **American Society of Health Economists**, Los Angeles CA.
- June 2014 “Good-Enough” Risk Adjustment Models for Physician Payment and Performance Assessment. **American Society of Health Economists**, Los Angeles CA.
- February 2014 Comparisons of Health Insurance Systems in Developed Countries. **Boston University School of Law**.
- December 2013 “Good-Enough” Risk Adjustment Models for Physician Payment and Performance Assessment. **Dartmouth Institute for Health Policy & Clinical Practice**. Dartmouth University, Hanover NH.
- July 2013 Risk Selection, Risk Adjustment and Choice: Concepts and Lessons from the Americas. **International Health Economics Association**, Sydney, Australia
- July 2013 Uncertainty and the Welfare Economics of Medical Care: Kenneth Arrow 50 Years On. **International Health Economics Association**, Sydney, Australia
- November 2012 Risk Selection, Risk Adjustment and Choice: Concepts and Lessons from the Americas (plenary presentation). **Fifth Congress on the Economics of Health in Latin America and the Caribbean**. Montevideo, Uruguay

- October 2012 Competition, Incentives and Regulation in Health Insurance Markets (plenary presentation). **Korean Insurance Research Institute (KIRI)**, Seoul, Korea.
- July 2012 Explaining Health Care Expenditure Variation: Large Sample Evidence Using Linked Survey and Health Administrative Data. **Risk Adjustment Network**, Lucerne, Switzerland.
- June 2012 Five Questions for Health Economists (Presidential address). **American Society of Health Economists**, University of Minnesota, Minneapolis, MN
- June 2012 Explaining Health Care Expenditure Variation: Large Sample Evidence Using Linked Survey and Health Administrative Data. **American Society of Health Economists**, University of Minnesota, Minneapolis, MN
- May, 2012 Payments in Support of Effective Primary Care for Chronic Conditions. **Nordic Economic Policy Review Conference**, Reykjavik Iceland
- January, 2012 Bending the Cost Curve? Results from a Comprehensive Primary Care Payment Pilot. **Allied Social Sciences Association, Health Economics Research Organization**, Chicago, IL
- July, 2011 Risk-Based Bonus Payments for the Patient-Centered Medical Home. **International Health Economics Association**, Toronto, Canada
- May, 2011 Recent Payment Innovations from the US Affecting Health Care Costs and Quality. **Department of Health and Ageing**, Canberra, Australia
- April, 2011 Does Service-Level Spending Show Evidence of Selection Across Health Plan Types? **University of Sydney**, Australia
- March, 2011 Does Service-Level Spending Show Evidence of Selection Across Health Plan Types? **University of Melbourne**, Australia
- March, 2011 Bending the Cost Curve? Results from a Risk-Adjusted Payment Model for a Patient-Centered Medical Home. Melbourne Institute, **University of Melbourne**, Australia
- March, 2011 Bending the Cost Curve? Results from a Risk-Adjusted Payment Model for a Patient-Centered Medical Home. **Department of Health and Ageing**, Canberra, Australia
- March, 2011 Bending the Cost Curve? Results from a Risk-Adjusted Payment Model for a Patient-Centered Medical Home. **University of Technology Sydney**, Australia
- February, 2011 Risk-Adjusted Bundled Payment for a Patient-Centered Medical Home Office of Research, Development and Information. **Centers for Medicare and Medicaid Services**, Baltimore MD.
- February, 2011 Bending the Cost Curve? Results from a Risk-Adjusted Payment Model for a Patient-Centered Medical Home. School of Economics, **University of New South Wales**, Sydney Australia.
- November 2010 Bending the Cost Curve? Results from a Risk-Adjusted Payment Model for a Patient-Centered Medical Home. Department of Health Services Research, **Boston University School of Public Health**
- November 2010 Bending the Cost Curve? Results from a Risk-Adjusted Payment Model for a Patient-Centered Medical Home Department of Health Care Policy. **Harvard Medical School**
- October 2010 Blueprint for a Patient-Centered Medical Home Payment Model. Department of Health Care Policy, **Harvard Medical School**
- September 2010 Risk-Adjusted Bundled Payments for Primary Care. Risk Adjustment Network conference, **Berlin Germany**
- September 2010 Recent Risk Adjustment Developments in Public Systems in the US. Risk Adjustment Network conference, **Berlin Germany**

- June 2010 Risk-Adjusted Bundled Payment for Primary Care. **American Society of Health Economists (ASHEcon)**, Cornell NY
- May 2010 Risk Adjusting Panel Performance Measures. **Group Practice Improvement Network**, (Internet presentation)
- April 2010 Risk-Adjusted Bundled Payments for Primary Care. **Harvard University**, Kennedy School of Government.
- January 2010 Bundled payments to primary care physicians using a risk-adjusted Primary Care Activity Level (PCAL) model. **International Conference on Health Policy Statistics**, American Statistical Association, Washington DC.
- November 2009 For what should primary care practitioners be paid? The Primary Care Activity Level (PCAL). **Prospective payment and health care provision conference**, Barcelona, Spain.
- August 2009 Comprehensive Payment Systems for Primary Care (plenary speaker). **Nordic Health Economics Study Group**, Reykjavik Iceland.
- July 2009 Bundling, risk adjustment, and provider payment systems. **International Health Economics Association (iHEA)**, Beijing, China
- March 2009 Health insurance, cost expectations, and job turnover. **Case Western Reserve**, Cleveland, OH.
- January 2009 Lessons from Recent German Health Care Reforms. **American Economics Association (AEA)/Chineses Economics Association (CEANA), ASSA**, San Francisco CA.
- October 2008 Regulation of Health Insurance Markets: Risk Adjustment and Risk Selection. **First Congress of the Colombian Health Economics Association**, Bogota, Colombia
- September 2008 A Payment Model for Massachusetts Primary Care Reform. **Actuaries Club of Boston**, Boston MA
- June, 2008 Risk adjustment for payment and quality measurement. **American Society of Health Economists (ASHE)**, Durham NC.
- June, 2008 Prevention and Dynamic Risk Adjustment. **American Society of Health Economists (ASHEcon)**, Durham NC.
- May, 2008 Global update on risk adjustment and predictive models. **International Actuaries Association**, Health Section, Boston MA.
- March, 2008 Optimal health insurance for multiple goods and time periods. **Annual Meeting of the Swiss Society of Economics and Statistics**, Lausanne, Switzerland.
- March, 2008 Risk adjustment and predictive modeling: Concepts and applications. **Risk Adjustment Network**, Dublin, Ireland.
- January 2008 Optimal health insurance for multiple goods and time periods. **Allied Social Sciences Association, American Society of Health Economists**, New Orleans, LA.
- October 2007 Health Care Delivery: Does It Improve Health Status? (panelist). **The World Bank**, Commission on Growth and Development, Washington DC.
- July 2007 Optimal insurance with prevention and multiple health goods. **International Health Economics Association (iHEA)**, Copenhagen, Denmark.
- May 2007 Optimal insurance with prevention and multiple health goods. **Harvard University**, Boston MA.
- April 2007 Does service-level spending show evidence of selection across health plan types? **Harvard University**, Kennedy School, Cambridge MA.
- October 2006 Provider payment methods and incentives. **The World Bank**, Washington DC.
- October 2006 Risk adjustment in health care markets: Concepts and Applications. **University of Saskatoon**, Saskatchewan, Canada.

- September 2006 Risk adjustment in health care markets: Concepts and Applications. **Suffolk University**, Boston MA.
- September 2006 Risk adjustment in health care markets: Concepts and Applications. **International Conference on Health Care Financing**. Banff, Alberta Canada.
- June 2006 Risk adjustment and predictive modeling. **American Society of Health Economists (ASHE)**, Madison WI.
- April 2006 Health Insurance, Expectations, and Job Turnover. **University of Chicago**, Harris School
- October 2005 Risk Adjustment and Predictive Modeling. **American Statistical Association**, Boston MA
- July 2005 Selection and Choice in the US Medicare Prescription Drug Improvement and Modernization Act of 2003. **International Health Economics Association (iHEA)**, Barcelona, Spain
- July 2005 Risk Adjustment and Predictive Modeling. **International Health Economics Association (iHEA)**, Barcelona Spain
- July 2005 Health Insurance, Expectations, and Job Turnover, **International Health Economics Association (iHEA)**, Barcelona Spain
- January 2005 Predictability and Predictiveness in Health Care Spending. **RTI international**, Waltham MA
- July 2004 Health Insurance, Expectations, and Job Turnover. Economic Research Initiative on the Uninsured, **University of Michigan**
- June 2004 Predictability and Predictiveness in Health Care Spending. **Economic Society of Australia**, Sydney, Australia
- June 2004 Risk adjustment in health financing: Ensuring equity. **New South Wales Department of Health and Ageing**. Sydney, Australia.
- May 2004 Risk Selection, risk adjustment, selection, risk adjustment, and risk sharing: Lessons from Europe and the Americas. **Victoria University of Wellington**, New Zealand
- May 2004 Predictability and Predictiveness in Health Care Spending. **University of Auckland**, Auckland, New Zealand.
- May 2004 Using Fuzzy Diagnoses for Risk Adjustment. **University of Adelaide**, Australia.
- May 2004 Predictability and Predictiveness in Health Care Spending. **University of South Australia**, Adelaide Australia.
- May 2004 Predicting pharmacy costs and other medical costs using diagnoses and drug claims. **Australian Institute of Health and Welfare**. Canberra, Australia
- April 2004 Predictability and Predictiveness in Health Care Spending. **Sydney University**,
- March 2004 Predictability and Predictiveness in Health Care Spending. **University of Technology Sydney**, Centre for Health Economics Research and Evaluation, Sydney Australia.
- January 2004 Health insurance, expectations, and labor market turnover. **University of New South Wales**, Sydney Australia.
- November 2003 Risk adjustment in health financing: Ensuring equity. **Australian Government Department of Health and Ageing**, Canberra, ACT Australia
- November 2003 Risk adjustment in health financing: Ensuring equity. **Association for Health Services Research of Australia and New Zealand**. Melbourne, Australia.
- November 2003 Risk selection, risk adjustment, selection, risk adjustment, and risk sharing: Lessons from Europe and the Americas. **Association for Health Services Research of Australia and New Zealand**. Melbourne, Australia.

- November 2003 Risk adjustment in health financing: Ensuring equity. **Victoria Government Department of Human Services**, Melbourne, Australia.
- November 2003 Predictability and Predictiveness in Health Care Spending. **Boston University School of Public Health**, Boston MA
- October 2003 Risk selection, risk adjustment, and risk sharing: lessons from Europe and the Americas. **University of Essen**, Essen, Germany
- July 2003 Risk Adjustment in the US Medicare Program. **AcademyHealth**, Nashville, TN.
- July 2003 New Uses of Diagnosis-Based Risk Adjustment. **AcademyHealth**, Nashville, TN.
- June 2003 Risk selection, risk adjustment, and risk sharing: lessons from Europe and the Americas. **International Health Economics Association** San Francisco CA
- June 2003 Risk selection, risk adjustment, and risk sharing: lessons from Europe and the Americas. **RTI International**, Waltham MA
- April 2003 Use of MEDSTAT MarketScan Data to develop models that identify high cost and high resource use individuals. **Massachusetts Health Data Consortium** Boston MA
- April 2003 Predictability and Predictiveness in Health Care Spending. **University of Montreal**, Montreal, Canada
- February 2003 Health Plan Entry and Exit in the Medicare Managed Care Market. **Harvard University, Kennedy School of Government**, Boston MA
- January 2003 Predictability and Predictiveness in Health Care Spending. **American Economic Association**, Washington DC.
- April 2002 Using Fuzzy Diagnoses for Risk Adjustment. **Case Western Reserve University**, Cleveland Ohio
- March 2002 Using Fuzzy Diagnoses for Risk Adjustment. **Taiwan National University**, Taipei Taiwan
- March 2002 Using Fuzzy Diagnoses for Risk Adjustment. **Hong Kong University of Science and Technology**, Hong Kong, China
- March 2002 Using Diagnoses for Risk Adjustment and Risk Assessment. **Bureau of National Health Insurance**, Taipei, Taiwan
- October 2001 DCGs and Mental Health. **Department of Veteran's Affairs**, Bedford MA
- September 2001 Co-Organizer, Industrial Organization of Health Care, Plymouth NH
- July 2001. Predictability and Predictiveness. **Third Biennial International Health Economics Association (iHEA) conference**, York, England
- June 2001 Hospital payment in the United States: An overview and discussion of current policy issues. At international conference entitled "Disease-based payments: the Foreign Experience" **DREES, Paris France**.
- May 2001 Death Spirals, Switching Costs, and Health Premium Payment Systems. **University of Minnesota**, School of Public Health.
- March 2001 Risk Adjustment and Disease Burden Assessment, **University of North Carolina**, School of Public Health.
- March 2001 Death Spirals, Switching Costs, and Health Premium Payment Systems. **University of North Carolina**, Department of Economics,
- February 2001 Death Spirals, Switching Costs, and Health Premium Payment Systems. **BU/Harvard/MIT Health Economics Seminar**, Boston University.
- December 2000 Understanding HCFA's Implementation of the PIP-DCG model. **Institute for International Research**. Orlando Florida.
- October 2000 Risk Adjustment and Disease Burden Assessment, **University of Alabama at Birmingham**, School of Public Health, Lister Hill Center for Health Policy.

- September 2000 Hospital Payment. Conference on Health Care Payment Reform, **University of Aix- Marseille 2**, France.
- September 2000 How Profitable is Risk Selection? A Comparison of Four Risk Adjustment Models. **GREQAM, University of Aix-Marseille 2**, France.
- August 2000 Test statistics in linear risk adjustment models. **Northeast Regional Health Economics Conference**, cosponsored by the Department of Veterans Affairs, and Boston University School of Public Health, Newport RI.
- July 2000 Implementing the DCG model for the Veteran's Population. conference on risk adjustment, **Department of Veteran's Affairs**, Washington DC.
- June 2000 The Revised DCG/HCC risk adjustment model. **Health Care Financing Administration**, Baltimore MD.
- June 2000 State of the State's Health Care. Panelist, **Massachusetts Medical Society**, Waltham MA. (*Comments published in summary proceedings of the Conference.*)
- May 2000 Death Spirals and Health Premium Payment Systems. **Brown University**, Department of Economics, Providence MA.
- January 2000 Formal Risk Adjustment by Private Employers. **conference on Formal Risk Adjustment**, Cosponsored by Boston University, Agency for Healthcare Research and Quality, and Management Sciences Group, Department of Veterans Affairs, Boston MA.

#### REVIEWER FOR

Agency for Health Care Policy and Research, *American Economic Journal: Applied Economics*, *American Economic Journal: Economic Policy*, *American Economic Review*, *American Journal of Ambulatory Care*; *American Journal of Health Economics*; *American Journal of Managed Care*; *Applied Economics*; *Asia-Pacific Journal of Public Health*; Australian Research Council; *BEJ in Economic Analysis and Policy*; *Canadian Journal of Economics*; *Circulation*; The Commonwealth Fund; *Contemporary Policy Issues*; *Economic Development and Cultural Change*; *Economic Inquiry*; *Economics Modeling*; *Energy Journal*; *European Journal of Health Economics*; *Health Affairs*; *Expert Review of Pharmacoeconomics & Outcomes Research*; *Health Care Financing Administration*; *Health Care Financing Review*; *Health Care Management Science*; *Health Economics*; *Health Economics, Policy, and Law*; *Health Policy*; *Health Policy and Planning*; *Health Services and Outcomes Research Methodology*; *Inquiry*; *International Economic Review*; *International Journal of Forecasting*; *International Journal of Health Care Finance and Economics*; *International Journal of Health Economics and Management*; *Journal of Applied Public Economics*; *Journal of Clinical Epidemiology*; *Journal of Developing Areas*; *Journal of Development Economics*; *Journal of Economic Behavior and Organization*; *Journal of Economic and Management Strategy*; *Journal of Economic Literature*; *Journal of General Internal Medicine*; *Journal of Health Economics*; *Journal of Health Care for the Poor and Underserved*; *Journal of Human Resources*; *Journal of Medical Economics*; *Journal of Policy Analysis and Management*; *Journal of Public Economics*; *Journal of Public Economics Theory*; *Journal of the American Medical Association*; *Medical Care*; National Institute of Mental Health; National Institute of Aging; *National Medical Research Council of Singapore*; National Research Council; National Science Foundation; *Nature*; *New England Journal of Medicine*; *Rand Journal of Economics*; Research Foundation – Flanders; *Review of Business and Economic Statistics*; *Review of Economics and Statistics*; *Review of Economic Studies*; *Review of Industrial Organization*; Robert Wood Johnson Foundation; *Social Science and Medicine*; *Social Science Journal*; *Socio-Economic Planning Sciences*; *Swiss National Science Foundation*; The World Bank.

## **HONORS, SCHOLARSHIPS, AND FELLOWSHIPS**

- 2024 Victor R. Fuchs Award for Lifetime Contributions to the Field of Health Economics, American Society of Health Economists
- 2013 Templeton Award for Excellence in Student Advising, BU College of Arts and Sciences
- 2012 Research and Educational Foundation Health Care Research Award Finalist, National Institute for Health Care Management, best article in 2011
- 2008 Research and Educational Foundation Health Care Research Award, National Institute for Health Care Management: Best article of the year (co-recipient)
- 2008 Health Services Research Impact Award, for body of work on Risk-Based Predictive Modeling
- 1991 Research Fellowship, Department of Veteran's Affairs
- 1988 Administrator's Citation, Health Care Financing Administration
- 1987-89 New Investigator Research Award, National Institute of Mental Health
- 1982 National Science Foundation Research Contract No.SES-8208669
- 1978 Research Fellowship, Federal Reserve Bank of Boston
- 1976 Summa cum laude with distinction in major (economics)
- 1976 William H. Massee award in Economics
- 1975 Phi Beta Kappa

## **EDITORIAL POSITIONS**

- 2013-21 Associate Editor, American Journal of Health Economics
- 1989-19 Associate Editor, Journal of Health Economics
- 2006-13 Editorial Board, Berkeley Economic Journals in Economic Analysis and Policy

## **PROFESSIONAL ASSOCIATIONS**

- 2004- Risk Adjustment Network, US Country Coordinator
- 2004- American Society of Health Economists (ASHEcon)
- 1996- International Health Economics Association (iHEA)
- 1981- American Economic Association
- 1988-03 American Public Health Association
- 1988-10 AcademyHealth (formerly Association for Health Services Research)
- 1986-03 Health Economics Research Organization
- 1981-91 International Association of Energy Economists

## **LANGUAGES**

French

## **COMPUTER**

SAS, STATA, LIMDEP, TSP, SPSS, SYSTAT, FORTRAN, Basic, EXCEL, Lotus 123, Mathematica, PowerPoint, Freelance, Scientific Word, Word, WordPerfect, XyWrite, Windows, and other software packages on mainframes and personal computers

April 27, 2024