

Syllabus

[cmd.economia@fgv.br]

Course: *Health Economics*

Professor:

2025 FIRST SEMESTER

PROGRAM

The goal of this course is to master the mathematical and graphical representations used in health economics and build a broad and deep fluency with the classic and current health economics literatures.

TOPICS

1. Fundamental Theory, and Measurement of Health
2. Health Insurance
3. Selection
4. Medicare/Medicaid and SUS
5. Health Over the Business Cycle
6. Supply of Health Care
7. Geographic Variation, and Productivity of Spending
8. Health Behaviors

GRADING

- 20% Class participation.
- 20% Referee report of a paper.
- 30% Presentation of an empirical paper.
- 30% Research proposal

SELECTED BIBLIOGRAPHY

1. Fundamental Theory, and Measurement of Health
 - Grossman, Michael, “On the Concept of Health Capital and the Demand for Health,” *Journal of Political Economy*, 1972, 80(2), 223-255.
 - Hall, Robert E. and Charles I. Jones, “The Value of Life and the Rise in Health Spending,” *Quarterly Journal of Economics*, 2007, 122 (1), 39-72.
 - Chandra, Amitabh and Jonathan Skinner, “Technology Growth and Expenditure Growth in Health Care,” *Journal of Economic Literature*, 2012, 50(3), 645-80.
 - Case, Anne and Christina Paxson. 2008. “Stature and Status: Height, Ability and Labor Market Outcomes.” *Journal of Political Economy* 116(3): 499-532
 - Cutler, David, Angus Deaton and Adriana Lleras-Muney, 2006, “The determinants of mortality,” *Journal of Economic Perspectives*, 20(3), 97–120

- Becker, Gary, Thomas Philipson, and Rodrigo Soares, 2005, “The quantity and quality of life and the evolution of world inequality,” *American Economic Review*, 95(1), 277–91
- Weil, David N., 2007, “Accounting for the effects of health on economic growth,” *Quarterly Journal of Economics*, 122(3), 1265–1306

2. Health Insurance

- Arrow, Kenneth, “Uncertainty and the Welfare Economics of Medical Care,” *American Economic Review*, 1963, 53(5), 941-973.
- Banerjee, Abhijit, et al. "The challenges of universal health insurance in developing countries: experimental evidence from Indonesia's National Health Insurance." *American Economic Review* 111.9 (2021): 3035-3063.
- Manning, Willard et al., “Health Insurance and the Demand for Medical Care: Evidence from a Randomized Experiment,” *American Economic Review*, 1987, 77(3), 251-177.
- Chandra, Amitabh, Jonathan Gruber, and Robin McKnight, “Patient Cost-Sharing and Hospitalization Offsets in the Elderly,” *American Economic Review*, 2010, 100(1), 1-24.
- Brot-Goldberg, Zarek C., Amitabh Chandra, Benjamin R. Handel, and Jonathan T. Kolstad, “What does a Deductible Do? The Impact of Cost-Sharing on Health Care Prices, Quantities, and Spending Dynamics,” *Quarterly Journal of Economics*, 2017, 132(3), 1261–131
- Summers, Larry. (1989) "Some Simple Economics of Mandated Benefits," *American Economic Review* 79 (May), 177-83.
- Are Health Care Services Shoppable? Evidence from the Consumption of Lower-Limb MRI Scans Michael Chernew, Zack Cooper, Eugene Larsen-Hallock, Fiona Scott Morton NBER Working Paper No. 24869 2018
- Gruber, Jonathan. “The Efficiency of a Group-Specific Mandated Benefit: Evidence from Health Insurance Benefits for Maternity,” *American Economic Review*, June 1994
- The RAND Health Insurance Experiment, Three Decades Later Aviva Aron-Dine Liran Einav Amy Finkelstein *Journal of Economic Perspectives* Vol. 27, No. 1, Winter 2013 (pp. 197-222)
- Cutler, David and Richard Zeckhauser, “The Anatomy of Health Insurance,” in Anthony J. Culyer and Joseph P. Newhouse, eds., *Handbook of Health Economics*, Amsterdam: NorthHolland, 2000
- Gruber, Jonathan and Robin McKnight. “Controlling Health Care Costs through Limited Network Insurance Plans: Evidence from Massachusetts State Employees,” *American Economic Journal: Economic Policy*, 2016, 8(2), 219-250.
- Cooper, Zack, Fiona Scott Morton, and Nathan Shekita, “Surprise! Out-of-Network Billing for Emergency Care in the United States,” *Journal of Political Economy* Volume 128, Number 9 September 2020
- Choose to Lose: Health Plan Choices from a Menu with Dominated Option Saurabh Bhargava George Loewenstein Justin Sydnor *The Quarterly Journal of Economics*, Volume 132, Issue 3, 1 August 2017, Pages 1319–1372
- Kolstad, Jonathan T. & Kowalski, Amanda E., 2012. "The impact of health care reform on hospital and preventive care: Evidence from Massachusetts," *Journal of*

Public Economics, Elsevier, vol. 96(11), pages 909-92

- Ho, Kate, “Insurer-Provider Networks in the Medical Care Market,” *American Economic Review*, 2009, 99(1): 393-430.
- Choice Inconsistencies among the Elderly: Evidence from Plan Choice in the Medicare Part D Program Jason Abaluck Jonathan Gruber *American Economic Review*. 101, NO. 4, JUNE 2011 (pp. 1180-1210)
- Behavioral Hazard in Health Insurance. Baicker, Katherine; Mullainathan, Sendhil; Schwartzstein, Joshua *Quarterly Journal of Economics*, November 2015, v. 130, iss. 4, pp. 1623- 67
- The Consequences of Health Care Privatization: Evidence from Medicare Advantage Exits Mark Duggan Jonathan Gruber Boris Vabson *American Economic Journal: Economic Policy* vol. 10, no. 1, february 2018

3. Selection

- Rothschild, Michael and Joseph E. Stiglitz, “Equilibrium in Competitive Insurance Markets: An Essay on the Economics of Imperfect Information”, *Quarterly Journal of Economics*, 1976, 90(4), 629-650. (ch 9)
- Cutler, David, and Sarah Reber, “Paying for Health Insurance: The Tradeoff Between Competition and Adverse Selection,” *Quarterly Journal of Economics*, 1998, 113(2), 433-466.
- Hendren, Nathaniel, “Private Information and Insurance Rejections,” *Econometrica*, 2013, 81(5): 1713-1762.
- Hanming Fang & Michael P. Keane & Dan Silverman, 2008. "Sources of Advantageous Selection: Evidence from the Medigap Insurance Market," *Journal of Political Economy* 116(2): 303-350.
- Einav, Liran, and Amy Finkelstein, Selection in Insurance Markets: Theory and Empirics in Pictures, *Journal of Economics Perspectives*, 2011, 25(1), 115-138.
- Adverse Selection in ACA Exchange Markets: Evidence from Colorado Matthew Panhans* *American Economic Journal: Applied Economics* 2019, 11(2): 1–36

4. Medicare/Medicaid and SUS

- Currie, Janet and Jon Gruber. (1996). “Saving Babies: The Efficacy and Cost of Recent Changes in the Medicaid Eligibility of Pregnant Women,” *Journal of Political Economy*.
- Currie, Janet and Jon Gruber. (1996). “Health Insurance Eligibility, Utilization of Medical Care, and Child Health,” *Quarterly Journal of Economics*.
- Finkelstein, Amy, “The Aggregate Effects of Health Insurance: Evidence from the Introduction of Medicare,” *Quarterly Journal of Economics*, 2007, 122(1), 1-37
- Card, David, Carlos Dobkin, Nicole Maestas, “Does Medicare Save Lives?” *Quarterly Journal of Economics*, 2009, 124(2), 597–636.
- Finkelstein, Amy, Sarah Taubman, Bill Wright, Mira Bernstein, Jonathan Gruber, Joseph P. Newhouse, Heidi Allen, and Katherine Baicker, “The Oregon Health Insurance Experiment:
Evidence from the First Year,” *Quarterly Journal of Economics*, 2012, 127(3), 1057-1106.

- Cabral, Marika, Michael Geruso, and Neale Mahoney. 2018. "Do Larger Health Insurance Subsidies Benefit Patients or Producers? Evidence from Medicare Advantage." *American Economic Review*, 108 (8):
 - In the Shadow of a Giant: Medicare's Influence on Private Physician Payments Clemens, Jeffrey; Gottlieb, Joshua D. *Journal of Political Economy*, February 2017, v. 125, iss. 1, pp. 1-39
 - Industry Input in Policy Making: Evidence from Medicare David C Chan, Michael J Dickstein *The Quarterly Journal of Economics*, Volume 134, Issue 3, August 2019, Pages 1299–1342,
 - Public Insurance and Mortality: Evidence from Medicaid Implementation Goodman-Bacon, Andrew *Journal of Political Economy*, 2018, v. 126, iss. 1, pp. 216-62
 - Does Managed Care Widen Infant Health Disparities? Evidence from Texas Medicaid Ilyana Kuziemko Katherine Meckel Maya Rossin-Slater *American Economic Journal: Economic Policy*
 - Health Care Spending and Utilization in Public and Private Medicare By Vilsa Curto, Liran Einav, Amy Finkelstein, Jonathan Levin, and Jay Bhattacharya. *American Economic Journal: Applied Economics* 2019, 11(2): 302–332
 - Can Universalization of Health Work? Evidence from Health Systems Restructuring and Expansion in Brazil (Sonia Bhalotra, Rudi Rocha, and Rodrigo R. Soares). IZA Discussion Paper 12111.
5. Health Over the Business Cycle
- Ruhm, Christopher. "Are Recessions Good for your Health?" *Quarterly Journal of Economics*, 2000, 115:2, 617-50.
 - Dehejia, R., & Lleras-Muney, A. (2004). Booms, Busts, and Babies' Health," *Quarterly Journal of Economics*, 119(3), 1091-1130.
 - Daniel Sullivan and Till von Wachter. (2009). "Job Displacement and Mortality: An Analysis Using Administrative Data," *Quarterly Journal of Economics* 124 (3): 1265-1306.
 - Is There a Link between Foreclosure and Health? Janet Currie, Erdal Tekin *American Economic Journal: Economic Policy* Vol. 7, No. 1, February 2015 (pp. 63-94)
 - Lindeboom, Maarten, France Portrait and Gerard van der Berg. "Individual Mortality and Macroeconomic Conditions from Birth to Death," *American Economic Review*, 96(1), 290-02, 2006.
 - Ann H. Stevens & Douglas L. Miller & Marianne E. Page & Mateusz Filipowski, 2015. "The Best of Times, the Worst of Times: Understanding Pro-cyclical Mortality," *American Economic Journal: Economic Policy*, American Economic Association, vol. 7(4), pages 279-311
 - Miller, Grant, and B. Piedad Urdinola. "Cyclical mortality, and the value of time: The case of coffee price fluctuations and child survival in Colombia." *Journal of Political Economy* 118.1 (2010): 113-155.
6. Supply of Health Care
- Kessler, Daniel and Mark McClellan, "Is Hospital Competition Socially Wasteful?" the *Quarterly Journal of Economics*, 2000, 115(2), 577-615.
 - Dafny, Leemore, Mark Duggan and Subramaniam Ramanarayanan,

- “Paying a Premium on Your Premium? Consolidation in the U.S. Health Insurance Industry,” *American Economic Review*, 2012, 102(2), 1161-1185
- Gupta, Atul and Howell, Sabrina T and Yannelis, Constantine and Gupta, Abhinav, Does Private Equity Investment in Healthcare Benefit Patients? Evidence from Nursing Homes (November 12, 2020). NYU Stern School of Business
 - The Price Ain’t Right? Hospital Prices and Health Spending on the Privately Insured Zack Cooper Stuart V Craig Martin Gaynor John Van Reenen. *The Quarterly Journal of Economics*, Volume 134, Issue 1, 1 February 2019, Pages 51–107
 - Prager, Elena. 2020. "Healthcare Demand under Simple Prices: Evidence from Tiered Hospital Networks." *American Economic Journal: Applied Economics*, 12 (4): 196-223.
 - Dafny, Leemore S.. 2010. "Are Health Insurance Markets Competitive?" *American Economic Review*, 100(4): 1399–1431.
 - Ho, Kate and Robin S. Lee, “Insurer Competition in Health Care Markets,” *Econometrica*, 2017, 85(2), 379-417
 - Mergers When Prices Are Negotiated: Evidence from the Hospital Industry. Gautam Gowrisankaran, Aviv Nevo and Robert Town. *American Economic Review*, Vol. 105, No. 1 (JANUARY 2015), pp. 172-203
 - The Impact of Competition on Management Quality: Evidence from Public Hospitals Bloom, Nicholas; Propper, Carol; Seiler, Stephan; Van Reenen, John *Review of Economic Studies*, April 2015, v. 82, iss. 2, pp. 457-89
 - Chandra, Amitabh, Amy Finkelstein, Adam Sacarny, and Chad Syverson. 2016. "Health Care Exceptionalism? Performance and Allocation in the US Health Care Sector." *American Economic Review*, 106 (8): 2110-44.
 - Employer Consolidation and Wages: Evidence from Hospitals Elena Prager Matt Schmitt *American Economic Review*
 - Dranove, David, Daniel Kessler, Mark McClellan, Mark Satterthwaite, “Is More Information Better? The Effects of Report Cards on Health Care Providers,” *Journal of Political Economy*, 2003, 111 #3, 555-588.
 - Defensive Medicine: Evidence from Military Immunity Michael D. Frakes, Jonathan Gruber *American Economic Journal: Economic Policy* 2019, 11(3): 197–231
 - Who Values Human Capitalists' Human Capital? Healthcare Spending and Physician Earnings July 2020 Working Paper Number Ces-20-23 Joshua D.Gottlieb, Maria Polyakova, Kevin Rinz, Hugh Shiple, and Victoria Udalova
 - Kessler, Daniel and Mark McClellan. “Do Doctors Practice Defensive Medicine?” *Quarterly Journal of Economics*, 1996, 111(2), 353-390.
 - The Efficiency of Slacking Off: Evidence from the Emergency Department p. 997-1030 David C. Chan *Econometrica*: May 2018, Volume 86, Issue 3
 - David Chan Teamwork and Moral Hazard: Evidence from the Emergency Department. *Journal of Political Economy* 2016 June; 124(3): 734-770
 - Physician Characteristics and Patient Survival: Evidence from Physician Availability Joseph J. Doyle Jr. NBER Working Paper 27458 2020
 - Zeltzer, Dan. 2020. "Gender Consequences for the Medicare Homophily in Referral Networks: Physician Earnings Gap."

American Economic Journal: Applied Economics, 12 (2): 169-97.

- Clemens, Jeffrey, and Joshua D. Gottlieb. "Do physicians' financial incentives affect medical treatment and patient health?." American Economic Review 104.4 (2014): 1320-1349.
- Johnson, Erin M., and M. Marit Rehani. "Physicians treating physicians: Information and incentives in childbirth." American Economic Journal: Economic Policy 8.1 (2016): 115-141.
- Einav, Liran, Amy Finkelstein, and Neale Mahoney. "Provider incentives and healthcare costs: Evidence from long-term care hospitals." Econometrica 86.6 (2018): 2161-2219.
- Silver, David. "Haste or waste? Peer pressure and productivity in the emergency department." The Review of Economic Studies 88.3 (2021): 1385-1417.
- Gupta, Atul. "Impacts of performance pay for hospitals: The readmissions reduction program." American Economic Review 111.4 (2021): 1241-1283.
- Gaynor, Martin, Nirav Mehta, and Seth Richards-Shubik. "Optimal Contracting with Altruistic Agents: Medicare Payments for Dialysis Drugs." American Economic Review 113.6 (2023): 1530-1571.
- Mullainathan, Sendhil, and Ziad Obermeyer. "Diagnosing physician error: A machine learning approach to low-value health care." The Quarterly Journal of Economics 137.2 (2022): 679-727.

7. Geographic Variation, and Productivity of Spending

- Finkelstein, Amy, Matthew Gentzkow, and Heidi Williams. "Sources of geographic variation in health care: Evidence from patient migration." The quarterly journal of economics 131.4 (2016): 1681-1726.
- Chandra, Amitabh, et al. "Productivity dispersion in medicine and manufacturing." American Economic Review 106.5 (2016): 99-103.
- Doyle, Joseph J. 2011. "Returns to Local-Area Health Care Spending: Evidence from Health
- Shocks to Patients Far from Home." American Economic Journal: Applied Economics, 3(3): 221-43.
- Physician Beliefs and Patient Preferences: A New Look at Regional Variation in Health Care
- Spending David Cutler Jonathan Skinner Ariel Dora Stern David Wennberg American Economic
- Journal: Economic Policy 2019 11(1): 192-221
- Deryugina, Tatyana, and David Molitor. 2020. "Does When You Die Depend on Where You
- Live? Evidence from Hurricane Katrina." American Economic Review, 110 (11): 3602-33.
- The Evolution of Physician Practice Styles: Evidence from Cardiologist Migration David
- Molitor American Economic Journal: Economic Policy Vol. 10, No. 1, 2018
- Douglas Almond & Joseph J. Doyle, Jr. & Amanda E. Kowalski & Heidi Williams, 2010.
- "Estimating Marginal Returns to Medical Care: Evidence from At-Risk Newborns," Quarterly

- Journal of Economics, 125(2): 591-634
- Productivity Spillovers in Health Care: Evidence from the Treatment of Heart Attacks Chandra,
- Amitabh; Staiger, Douglas O. Journal of Political Economy, February 2007, v. 115, iss. 1, pp. 103-40
- Measuring Returns to Hospital Care: Evidence from Ambulance Referral Patterns Doyle, Joseph
- J., Jr.; Graves, John A.; Gruber, Jonathan; Kleiner, Samuel A. Journal of Political Economy, February 2015, v. 123, iss. 1, pp. 170-214
- Productivity and Quality in Health Care: Evidence from the Dialysis Industry Grieco, Paul L.
- E.; McDevitt, Ryan C. Review of Economic Studies, 2017, v. 84, iss. 3, pp. 1071-1105
- Chen, Yiqun. "Team-specific human capital and team performance: evidence from doctors." American economic review 111.12 (2021): 3923-3962.

8. Health Behaviors

- Becker, Gary and Kevin Murphy. "A Theory of Rational Addiction," Journal of Political Economy, 1988
- The Effect of Alcohol Consumption on Mortality: Regression Discontinuity Evidence from the Minimum Drinking Age Christopher Carpenter Carlos Dobkin American Economic Journal: Applied Economics Vol. 1, No. 1, January 2009 (pp. 164-82)
- Fertig, Angela R. and Tara Watson. 2009. "Minimum Drinking Age Laws and Infant Health Outcomes." Journal of Health Economics, 28(3): 737-747
- Bhattacharya, Jay, Christina Gathmann, and Grant Miller, 2011, "The Gorbachev anti-alcohol campaign and Russia's mortality crisis," American Economic Journal: Applied Economics Vol. 5, No. 2 (April 2013), pp. 232-2
- Gruber, Jonathan and Botond Koszegi. "Is Addiction Rational: Theory and Evidence?" Quarterly Journal of Economics, 2001.
- Oster, Emily. "Health recommendations and selection in health behaviors." American Economic Review: Insights 2.2 (2020): 143-160.
- Einav, Liran, et al. "Screening and selection: The case of mammograms." American Economic Review 110.12 (2020): 3836-3870.
- Fadlon, Itzik, and Torben Heien Nielsen. "Family health behaviors." American Economic Review 109.9 (2019): 3162-3191.
- The Roots of Health Inequality and The Value of Intra-Family Expertise Yiqun Chen, Petra Persson & Maria Polyakova NBER Working Paper 25618 2020
- Laibson, David, "Golden Eggs and Hyperbolic Discounting," Quarterly Journal of Economics, 1997, 112(2), 443-477.

- Smoking, Expectations, and Health: A Dynamic Stochastic Model of Lifetime Smoking Behavior Darden, Michael Journal of Political Economy, October 2017, v. 125, iss. 5, pp. 1465-1522
- Oster, Emily, Ira Shoulson, and E. Ray Dorsey. "Limited life expectancy, human capital and health investments." American Economic Review 103.5 (2013): 1977-2002.
- Oster, Emily, Ira Shoulson, and E. Ray Dorsey. "Optimal expectations and limited medical testing: Evidence from Huntington disease." American Economic Review 103.2 (2013): 804-830.

CONTACT INFORMATION

Instructor:

Email:

Office Hours: Tuesdays 13:00-15:00

- Office hours are a pre-defined period of time that is entirely dedicated to students. During this period, feel free to drop by my office for any reason. You can ask me any questions related to the course, to academia, to your career, to Economics or to your life as a graduate student.

HANDBOOKS

Cawley, John, and Christopher J. Ruhm. "The economics of risky health behaviors." Handbook of health economics. Vol. 2. Elsevier, 2011. 95-199.

Pauly, Mark V., Thomas G. McGuire, and Pedro Pita Barros, eds. Handbook of health economics. Vol. 2. Elsevier, 2012.

Culyer, A. J., and Joseph P. Newhouse, eds. Handbook of health economics. Elsevier, 2000.

CLASSROOMS POLICIES

This class is committed to an inclusive learning environment. All students, teaching staff, and the professor are expected to treat each other with respect and dignity at all times. All community members should enjoy an environment free of any form of harassment, sexual misconduct, discrimination, or intimate partner violence.

Mental Health issues are an extremely common problem among graduate students (<https://scholar.harvard.edu/bolotnyy/publications/graduate-student-mental-health-lessons-american-economics-departments>).

To help any students, FGV offers the Pró-Saúde Program: <https://eesp.fgv.br/pro-saude-fgv>. Feel free to contact them at any time.

Moreover, there are many affordable options outside FGV that may be helpful to you too, such as

- Clínica Psicológica Ana Maria Poppovic – PUC-SP: <https://www.pucsp.br/clinica/index.html>.
- Psicodrama Público no Centro Cultural São Paulo: <http://centrocultural.sp.gov.br/2020/03/05/subjetividades-e-espaco-publico/>

<https://spcultura.prefeitura.sp.gov.br/evento/26868/>.

Furthermore, there are many mindfulness and meditation apps that you may find useful:

- Ten Percent Happier: <https://www.tenpercent.com/>
- Unwinding Anxiety: <https://unwindinganxiety.com/>
- Meditopia: <https://meditopia.com/pt/> (em Português)