

## ROSLYN C. MURRAY

Department of Health Management and Policy  
School of Public Health  
University of Michigan  
1415 Washington Heights  
Ann Arbor, MI 48109

roslynm@umich.edu  
(443) 857-1638

### EDUCATION

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**University of Michigan**, Ann Arbor, MI

Expected: 2024      Ph.D., Health Services Organization and Policy (Economics Cognate)

**Georgetown University**, Washington, D.C.

2020      MPP, McCourt School of Public Policy

**Stanford University**, Stanford, CA

2015      BA, Human Biology

### JOB MARKET PAPER

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#### **“Changes in Hospital Prices After Two Years of Oregon’s Hospital Payment Cap”**

Hospital prices for the commercially insured are high and vary widely, prompting states to control hospital price growth. In October 2019, the Oregon state employee plan instituted a cap on hospital payments. Using 2014-2021 data from the Oregon All Payer All Claims database and a difference-in-differences design, I compared changes in hospital facility prices for Oregon’s state employee enrollees with non-state employee commercial enrollees in the first 27 months of the hospital payment cap. I estimated separate effects for the first two years. The study included 53,722 admissions and 2,717,327 procedures received by state employee enrollees and 228,821 admissions and 14,379,359 procedures received by control enrollees. In the pre-period, average inpatient and outpatient facility prices were \$28,752 per admission and \$511 per procedure for state employees. The cap was not associated with a significant reduction in inpatient facility prices across the post-period (-\$901.9 per admission, 95% Confidence Interval [CI]: -\$3,665.00, \$1,861.200) but was associated with a significant reduction in the second program year (-\$2,774.20, 95% CI: -\$5,235.40, -\$313.10). The cap was associated with a 25 percent reduction in outpatient facility prices (-\$130.50 per procedure, 95% CI: -\$177.60, -\$83.30). I estimate \$107.5 million in savings to the state employee plan over the first 27 months of the program. The Oregon hospital payment cap successfully reduced hospital prices over the first two years. (Funded by Arnold Ventures.)

## **PUBLICATIONS**

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### **Peer-Reviewed Journal Articles**

1. **Murray RC**, Brown ZY, Miller S, Norton EC, Ryan AM, Hospital Facility Prices Declined as a Result of Oregon's Hospital Payment Cap, *Health Affairs* (Forthcoming)
2. **Murray RC**, Meyers DJ, Fuse Brown EC, Williams TC, Ryan AM, Association Between the Medicare Advantage Quartile Adjustment System and Plan Behavior and Enrollment, *JAMA Health Forum* (Forthcoming)
3. **Murray RC**, Meyers DJ, Fuse Brown EC, Ryan AM, Estimated Fiscal Effects of Medicare Advantage's Quartile Payment System, *JAMA Health Forum*, December 8, 2023
4. Ryan AM, Chopra Z, Meyers DJ, Fuse Brown E, **Murray RC**, Williams TC, Favorable Selection in Medicare Advantage is Linked to Inflated Benchmarks and Billions in Overpayments to Plans, *Health Affairs*, September 5, 2023
5. Fuse Brown EC, Williams TC, **Murray RC**, Meyers DJ, Ryan AM, Legislative and Regulatory Options to Improve Medicare Advantage, *J Health Politics Policy Law*, July 7, 2023
6. Markovitz A, **Murray RC**, Ryan AM, Comprehensive Primary Care Plus Did Not Improve Quality or Spending for the Privately Insured, *Health Affairs*, September 6, 2022
7. Milad MA, **Murray RC**, Navathe AS, Ryan AM, Value-Based Payment Models In The Commercial Insurance Sector: A Systematic Review, *Health Affairs*, April 5, 2022

### **Manuscripts in Submission**

1. Ryan AM, **Murray RC**, Meyers DJ, Valuing the Enhanced Benefits and Additional Payments to Medicare Advantage Plans, (Under review)

### **Manuscripts in Preparation**

**Murray RC**, Brown ZY, Miller S, Norton EC, Ryan AM, Oregon Payment Regulations Led to Reductions in Enrollee Cost-Sharing and Increases in Service Use.

### **Blog Posts**

Williams TC, Fuse Brown EC, Meyers DJ, **Murray R**, Ryan AM, Medicare Advantage Audit Changes Let Plans Keep Billions In Overpayments, *Health Affairs Forefront*, February 27, 2023

**Murray R**, Delbanco SF, King JS, State Policies to Make Health Care More Affordable During COVID-19 and Beyond, *Health Affairs Forefront*, January 8, 2021

January 2024

**Murray R**, Delbanco SF, King JS, How Can State Legislation Promote Value in Health Care? Three Innovative Models, *Health Affairs Forefront*, January 6, 2021

**Murray R**, Delbanco SF, King JS, Supporting Health Care Competition in the Era of COVID-19: Three Legislative Models for States, *Health Affairs Forefront*, January 4, 2021

**Murray R**, King JS, Delbanco SF, Lehan M, The State of State Legislation Addressing Health Care Costs and Quality, *Health Affairs Forefront*, August 22, 2019

Delbanco SF, Lehan M, **Murray R**, Addressing Inappropriate Care: Employers Innovating To Reduce Waste, *Health Affairs Forefront*, May 29, 2019

**Murray R**, Lehan M, Delbanco SF, The Evidence for High-Value Benefit Designs, *NEJM Catalyst*, April 11, 2019

Delbanco SF, Lehan M, **Murray R**, The Evidence On Pay-For-Performance: Not Strong Enough On Its Own? *Health Affairs Forefront*, October 24, 2018

**Murray R**, Caballero A, Delbanco SF, The State of the Evidence on Payment Reform, *NEJM Catalyst*, July 18, 2018

**Murray R**, Delbanco SF, The Evidence on Shared Savings: Do We Know Enough? *Health Affairs Forefront*, July 17, 2018

**Murray R**, Delbanco SF, Two Ways Employers Should Push ACO Arrangements To Evolve, *Health Affairs Forefront*, April 9, 2018

Caballero A, **Murray R**, Delbanco SF, Are Limited Networks What We Hope And Think They Are? *Health Affairs Forefront*, February 12, 2018

Delbanco SF, **Murray R**, Focused Factories: Pairing Provider Payment and Consumer Benefit Design to Enhance Value, *Health Affairs Forefront*, January 10, 2018

Delbanco SF, **Murray R**, Tension Between High-Deductible Health Plans And Payment And Delivery Reform, *Health Affairs Forefront*, Oct 25, 2017

Delbanco SF, **Murray R**, The Potential Value Of Aligning High-Value Benefit Designs With Payment Reforms, The Payment Reform Landscape, *Health Affairs Forefront*, Apr 4, 2017

Berenson RA, Delbanco SF, Guterman S, Chernew M, Ginsburg PB, Upadhyay D, **Murray R**, Refining the Framework for Payment Reform, *Health Affairs Forefront*, Sep 19, 2016

Delbanco SF, **Murray R**, Galvin R, Tailoring Payment Reforms To Local Market Dynamics, The Payment Reform Landscape, *Health Affairs Forefront*, Jun 21, 2016

Delbanco SF, Berenson RA, Upadhyay D, **Murray R**, Understanding How Payment and Benefit Designs Work Together in Health Care, *Health Affairs Forefront*, May 25, 2016

## Other Non-Peer Reviewed Publications

Berenson RA, Shartzter A, **Murray RC**, Strengthening Primary Care Delivery through Payment Reform, *The Urban Institute*, May 4, 2021

**Murray R**, Delbanco SF, King JS, Promoting Health Care Transparency via State Legislative Efforts, *JAMA Health Forum*, March 9, 2020

Berenson RA, King JS, Gudiksen KL, **Murray R**, Shartzter A, Addressing Health Care Market Consolidation and High Prices, *The Urban Institute*, January 13, 2020

Delbanco SF, **Murray R**, Chernew ME, Scanlon DP, Guide for Purchasers: Methodologies for Evaluating Value-Oriented Strategies, *Catalyst for Payment Reform*, January 2019

**Murray R**, Delbanco SF, The Current Evidence for Bundled Payments, *American Journal of Managed Care*, April 30, 2018

Delbanco SF, Caballero A, **Murray R**, Variations in ACOs and Narrow Networks Challenge Efforts to Track Their Impact, *American Journal of Managed Care*, January 4, 2018

Berenson RA, Delbanco SF, Guterman S, Chernew M, Ginsburg PB, Upadhyay D, **Murray R**, Refining the Framework for Payment Reform, *The Urban Institute*, Sep 19, 2016

Delbanco SF, **Murray R**, Berenson RA, Upadhyay D, Benefit Designs: How They Work, *The Urban Institute*, May 3, 2016

Delbanco SF, **Murray R**, Berenson RA, Upadhyay D, A Typology of Benefit Designs, *The Urban Institute*, May 3, 2016

Berenson RA, Delbanco SF, **Murray R**, Upadhyay D, Matching Payment Methods with Benefit Designs to Support Delivery Reforms, *The Urban Institute*, May 3, 2016

Berenson RA, Upadhyay D, Delbanco SF, **Murray R**, Payment Methods: How They Work, *The Urban Institute*, May 3, 2016

Berenson RA, Upadhyay D, Delbanco SF, **Murray R**, A Typology of Payment Methods, *The Urban Institute*, May 3, 2016

## HONORS & AWARDS

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2022-Present	Evaluating Oregon's Legislation Limiting In- and Out-of-Network Rates for State Employees (dissertation grant of \$270,316), funded by Arnold Ventures
2020-Present	PhD Scholarship (full tuition and stipend), University of Michigan
2019-2020	Teaching Assistant of the Year, McCourt School of Public Policy, Georgetown University

## **PRESENTATIONS**

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### **Invited Seminars & Talks**

- 2023 “Changes in Enrollee Cost-Sharing and Care Utilization After Two Years of Oregon’s Hospital Payment Cap.” Brown University, School of Public Health. Providence, RI.
- 2023 “Changes in Medicare Advantage Benchmarks Have Little Effect on Enrollment, Insurer Offerings, and Benefit Generosity.” MA Data Lab. Virtual.
- 2022 “Value-Based Care in the Commercial Space.” Out-Of-Pocket Health. Virtual.
- 2020 “Policy Approaches to Healthcare Affordability-Is Now the Time to (Finally) Make Progress?” Altarum: Healthcare Value Hub. Washington, D.C.

### **Conferences**

- 2023 “Changes in Hospital Prices After Two Years of Oregon’s Hospital Payment Cap.” 2023 Association for Public Policy Analysis and Management Fall Research Conference. Atlanta, GA.
- 2023 “The Policy Implications of Modifying Medicare Advantage Benchmarks: Effect on Enrollment, Insurer Offerings, and Benefit Generosity.” Poster presented at: Academy Health Annual Research Meeting 2023. Seattle, WA.
- 2023 “The Policy Implications of Modifying Medicare Advantage Benchmarks: Effect on Enrollment, Insurer Offerings, and Benefit Generosity.” Poster presented at: American Society of Health Economists 12<sup>th</sup> Annual Conference. St. Louis, MO.
- 2023 “Changes in Hospital Prices After Two Years of Oregon’s Hospital Payment Cap.” American Society of Health Economists 12<sup>th</sup> Annual Conference. St. Louis, MO.
- 2022 “The Comprehensive Primary Care Demonstration Did Not Improve Quality or Spending for the Privately Insured.” American Society of Health Economists 11<sup>th</sup> Annual Conference. Austin, TX.
- 2022 “Discussant: Practice-style Spillovers in Hospital Care: Evidence from Lower Extremity Joint Replacement Surgery.” American Society of Health Economists 11<sup>th</sup> Annual Conference. Austin, TX.
- 2017 “Innovation: Benefit Designs that Work.” Memphis Business Group on Health 2017 Annual Conference. Memphis, TN.

### **Campus or Departmental Talks**

- 2023 “Diversity, Equity, & Inclusion Workshop: Anti-Racism in the Core Curriculum.” Health Services Organization and Policy Workshop for Integrating and Discussing Topics in Healthcare. Virtual.
- 2023 “Diversity, Equity, & Inclusion Workshop: Anti-Racist Approaches in Research.” Health Services Organization and Policy Workshop for Integrating and Discussing Topics in Healthcare. Virtual.
- 2023 “Diversity, Equity, & Inclusion Workshop: Expectation Setting and Guests in the House.” Health Services Organization and Policy Workshop for Integrating and Discussing Topics in Healthcare. Ann Arbor, MI.
- 2021 “Effect of Reference Pricing on Medical Prices: A Systematic Review.” University of Michigan VBP/ACO Working Group Meeting. Virtual.

### **Other Presentations**

- 2019 “The State Laws Impacting Healthcare Cost and Quality Database.” Catalyst for Payment Reform Virtual Summit. Virtual Event.
- 2017 “Holding Health Plans Accountable for their Accountable Care Organization (ACO) Arrangements.” Catalyst for Payment Reform Virtual Summit. Virtual Event.
- 2017 “Keeping Tabs on your Health Plan.” Catalyst for Payment Reform. Virtual Event.
- 2017 “Understanding Market Dynamics.” Catalyst for Payment Reform. Virtual Event.

### **TEACHING EXPERIENCE**

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**Georgetown University, McCourt School of Public Policy, Washington, D.C.**

Principles of Microeconomics, Teaching Assistant (virtual) - Summer 2020, 2021, 2022, 2023

Advanced Applied Econometrics, Teaching Assistant (virtual) - Spring 2021, 2023

Microeconomics II: Market Failures & Public Economics, Teaching Assistant - Spring 2020

Intermediate Microeconomics, Teaching Assistant - Fall 2019

### **RESEARCH EXPERIENCE**

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**University of Michigan, Ann Arbor, MI**

2021-Present Research Assistant for Andrew Ryan, PhD

January 2024

**Georgetown University**, Washington, D.C.

2018-2020                      Research Assistant for Robert Berenson, MD

## **PROFESSIONAL EXPERIENCE**

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**National Academy of Social Insurance**, Washington, D.C.

2019                      Rashi Fein Intern on Health Policy

**Catalyst for Payment Reform**, Berkeley, CA

2020                      Consultant

2016-2019                      Senior Project and Research Manager

2014-2015                      Project and Research Assistant

## **PROFESSIONAL ACTIVITIES**

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### **Departmental Service**

2022-2023                      Diversity, Equity, & Inclusion Committee, Department of Health Management & Policy, University of Michigan

### **Affiliations**

2023                      Association for Public Policy Analysis and Management

2023                      AcademyHealth

2021-Present                      American Society of Health Economists

2020-Present                      Center for Evaluating Health Reform, University of Michigan

### **Peer Review Activities**

*American Journal of Managed Care, JAMA Health Forum, and The European Journal of Health Economics*

## **PRACTICE ACTIVITIES**

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### **Media Coverage of Research Works**

1. The Lund Report. Economists ask if Oregon's hospital price cap, birth control expansion worked as planned. June 13, 2023. <https://www.thelundreport.org/content/economists-ask-if-oregons-hospital-price-cap-birth-control-expansion-worked-planned>

2. Healthcare Innovation. Research: CPC+ model has not controlled costs or quality on private side. September 19, 2022. <https://www.hcinnovationgroup.com/policy-value-based-care/value-based-care-quality-measurement/article/21281238/research-cpc-model-has-not-controlled-costs-or-quality-on-private-side>
3. Aledade. Episode 125: Commercial value-based care. June 20, 2022. <https://resources.aledade.com/aco-show-podcasts/episode-125-commercial-value-based-care>
4. Catalyst for Payment Reform. Roslyn Murray on value-based payment models in the commercial sector. May 13, 2022. <https://www.catalyze.org/roslyn-murray-health-affai/>
5. HealthLeaders. Do commercial value-based models work? April 14, 2022. <https://www.healthleadersmedia.com/payer/do-commercial-value-based-models-work>

## REFERENCES

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Andrew M. Ryan, Ph.D.  
Department of Health Services, Policy, & Practice  
Brown University  
[andrew\\_m\\_ryan@brown.edu](mailto:andrew_m_ryan@brown.edu)

Edward C. Norton, Ph.D.  
Department of Health Management & Policy  
University of Michigan  
[ecnorton@umich.edu](mailto:ecnorton@umich.edu)

Sarah Miller, Ph.D.  
Ross School of Business  
University of Michigan  
[mille@umich.edu](mailto:mille@umich.edu)

Robert A. Berenson, MD  
Health Policy Center  
Urban Institute  
[rberenson@urban.org](mailto:rberenson@urban.org)