

# Cyrus Mohammad Kosar

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## Academic Appointments

2021- Assistant Professor of Health Services Research, Policy and Practice, Brown University School of Public Health

## Education

2021 PhD, Health Services Research, Brown University

2010 M.A., Economics, Boston University

2009 B.A, Economics, Boston University

## Publications

### *Journal Articles (\*indicates Trainee)*

1. Oh H, White EM, Muench U, Santostefano S, Thapa B, **Kosar CM**, Gadbois EA, Osakwe ZT, Gozalo P, Rahman M. Advanced practice clinician care and end-of-life outcomes for community- and nursing home-dwelling Medicare beneficiaries with dementia. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* (In Press).
2. **Kosar CM**, Mor V, Werner RM, Rahman M. Risk of Discharge to Lower-Quality Nursing Homes Among Hospitalized Older Adults With Alzheimer Disease and Related Dementias. *JAMA Netw Open*. 2023 Feb 1;6(2):e2255134.
3. Shi SM, **Kosar CM**, Gouskova N, Berry S. Post-Acute Care Rehabilitation Services and Outcomes in Skilled Nursing Facilities Before and During the COVID-19 Pandemic. *JAMA Health Forum*. 2023 Mar 3;4(3):e230019.
4. Lipsitz LA, **Kosar CM**, Dufour AB, Trivison TG, Mor V. Evaluation of a state-wide effort to improve COVID-19 infection control in Massachusetts nursing homes. *Journal of the American Geriatrics Society*. 2022 Nov;70(11):3273-80.
5. Ritter AZ, **Kosar CM**, White EM, Feifer RA, Blackman C, Mor V. Incidence and Outcomes of SARS-CoV-2 in Post-Acute Skilled Nursing Facility Care. *Journal of the American Medical Directors Association*. 2022 Aug 1;23(8):1269-73.
6. Dufour AB, **Kosar CM**, Mor V, Lipsitz LA. The effect of race and dementia prevalence on a COVID-19 infection control intervention in Massachusetts nursing homes. *The Journals of Gerontology: Series A*. 2022 Jul;77(7):1361-5.
7. Mor V, Gutman R, Yang X, White EM, McConeghy KW, Feifer RA, Blackman CR, **Kosar CM**, Bardenheier BH, Gravenstein SA. Short-term impact of nursing home SARS-CoV-2 vaccinations on new infections, hospitalizations, and deaths. *Journal of the American Geriatrics Society*. In Press

8. **Kosar CM**, White EW, Feifer RA, Blackman C, Gravenstein S, McConeghy K, Panagiotou OA, Mor V. Assessment of Trends in Short-Term Mortality Rates among Nursing Home Residents with SARS-CoV-2. *Health Affairs*. In Press.
9. **Kosar CM**, Rahman M. Early Acceleration of COVID-19 in Areas with Larger Nursing Homes and Certificate of Need Laws. *Journal of General Internal Medicine*. In Press.
10. Bardenheier B, Rahman M, **Kosar CM**, Werner RM, Mor V. The Gap in Successful SNF Discharge back to the Community between Traditional Medicare Beneficiaries with and without Dementia is Narrowing: 2007-2015. *Journal of the American Geriatrics Society*. In Press.
11. Panagiotou OA, **Kosar CM**, White EW, Feifer RA, Blackman C, Gravenstein S, Rudolph J, Mor V. Risk Factors Associated with All-Cause 30-Day Mortality Among Nursing Home Residents with COVID-19. *JAMA Internal Medicine*. In Press.
12. Ossimetha A,\* Ossimetha A,\* **Kosar CM**, Rahman MR. Socioeconomic Disparities in Community Mobility Reduction and COVID-19 Growth. *Mayo Clinic Proceedings*. In Press.
13. White EM, Santostefano CM, Feifer RA, **Kosar CM**, Blackman C, Gravenstein S, Mor V. Asymptomatic and Presymptomatic Severe Acute Respiratory Syndrome Coronavirus 2 Infection Rates in a Multistate Sample of Skilled Nursing Facilities. *JAMA Internal Medicine*. In Press.
14. Evans E, **Kosar CM**, Thomas KS. Positive Beliefs and the Probability of Successful Community Discharge from Skilled Nursing Facilities. *Archives of Physical Medicine and Rehabilitation*. In Press.
15. Loomer L, **Kosar CM**, Meyers DJ, Thomas KS. Comparing Receipt of Prescribed Post-Acute Home Health Care Between Medicare Advantage and Traditional Medicare Beneficiaries. *Journal of General Internal Medicine*. 2020 Oct 13:1-9.
16. White EM, **Kosar CM**, Feifer RA, Blackman C, Gravenstein S, Ouslander J, Mor V. Variation in SARS-CoV-2 Prevalence in US Skilled Nursing Facilities. *Journal of the American Geriatrics Society*. 2020 Oct;68(10):2167-73.
17. **Kosar CM**, Loomer L, Thomas KS, White EM, Panagiotou OA, Rahman M. Association of Diagnosis Coding With Differences in Risk-Adjusted Short-term Mortality Between Critical Access and Non-Critical Access Hospitals. *JAMA*. 2020 Aug 4;324(5):481-7.
18. White EM, **Kosar CM**, Rahman M, Mor V. Trends in Hospitals and Skilled Nursing Facilities Sharing Medical Providers, 2008-16: Study examines the extent to which hospitals and nursing homes share physicians and advanced practice clinicians. *Health Affairs*. 2020 Aug 1;39(8):1312-20.
19. **Kosar CM**, Loomer L, Ferdows NB, Trivedi AN, Panagiotou OA, Rahman M. Assessment of Rural-Urban Differences in Postacute Care

- Utilization and Outcomes Among Older US Adults. *JAMA Network Open*. 2020 Jan 3;3(1):e1918738-.
20. Meyers DJ, **Kosar CM**, Rahman M, Mor V, Trivedi AN. Association of Mandatory Bundled Payments for Joint Replacement With Use of Postacute Care Among Medicare Advantage Enrollees. *JAMA Network Open*. 2019 Dec 2;2(12):e1918535-.
  21. Keeler H, Baier RR, **Kosar CM**, Culross B, Cramer ME. Examining the impact of board-certified registered nurses in skilled nursing facilities using national and state quality and clinical indicators. *Journal of Gerontological Nursing*. 2019 Oct 25;45(11):39-45.
  22. Schwartz ML, **Kosar CM**, Mroz TM, Kumar A, Rahman M. Quality of Home Health Agencies Serving Traditional Medicare vs Medicare Advantage Beneficiaries. *JAMA Network Open*. 2019 Sep 4;2(9):e1910622-.
  23. Bélanger E, Silver B, Meyers DJ, Rahman M, Kumar A, **Kosar CM**, Mor V. A retrospective study of administrative data to identify high-need Medicare beneficiaries at risk of dying and being hospitalized. *Journal of General Internal Medicine*. 2019 Mar 15;34(3):405-11.
  24. **Kosar CM**, Thomas KS, Gozalo PL, Mor V. Higher level of obesity is associated with intensive personal care assistance in the nursing home. *Journal of the American Medical Directors Association*. 2018 Nov 1;19(11):1015-9.
  25. Lueckel SN, **Kosar CM**, Teno JM, Monaghan SF, Heffernan DS, Cioffi WG, Thomas KS. Outcomes in nursing home patients with traumatic brain injury. *Surgery*. 2018 Jul 1;164(1):150-4.
  26. Reznik ME, Yaghi S, Jayaraman MV, McTaggart RA, Hemendinger M, Mac Grory BC, Burton TM, Cutting SM, Thompson BB, Wendell LC, Mahta A, Potter NS, Daiello LA, **Kosar CM**, Jones RN, Furie KL. Level of consciousness at discharge and associations with outcome after ischemic stroke. *Journal of the Neurological Sciences*. 2018 Jul 15;390:102-7.
  27. **Kosar CM**, Thomas KS, Gozalo PL, Ogarek JA, Mor V. Effect of obesity on postacute outcomes of skilled nursing facility residents with hip fracture. *Journal of the American Geriatrics Society*. 2018 Jul;66(6):1108-14.
  28. Thomas KS, Baier R, **Kosar CM**, Ogarek J, Trepman A, Mor V. Individualized music program is associated with improved outcomes for US nursing home residents with dementia. *The American Journal of Geriatric Psychiatry*. 2017 Sep 1;25(9):931-8.
  29. **Kosar CM**, Thomas KS, Inouye SK, Mor V. Delirium during postacute nursing home admission and risk for adverse outcomes. *Journal of the American Geriatrics Society*. 2017 Jul;65(7):1470-5.
  30. Vasunilashorn SM, Guess J, Ngo L, Fick D, Jones RN, Schmitt EM, **Kosar CM**, Saczynski JS, Trivison TG, Inouye SK, Marcantonio

ER. Derivation and Validation of a Severity Scoring Method for the 3-Minute Diagnostic Interview for Confusion Assessment Method--Defined Delirium. *Journal of the American Geriatrics Society*. 2016 Aug;64(8):1684-9.

31. Inouye SK, Marcantonio ER, **Kosar CM**, Tommet D, Schmitt EM, Trivison TG, Saczynski JS, Ngo LH, Alsup DC, Jones RN. The short-term and long-term relationship between delirium and cognitive trajectory in older surgical patients. *Alzheimer's & Dementia*. 2016 Jul 1;12(7):766-75.
32. Hshieh TT, Fox ML, Kosar CM, Cavallari M, Guttmann CR, Alsup D, Marcantonio ER, Schmitt EM, Jones RN, Inouye SK. Head circumference as a useful surrogate for intracranial volume in older adults. *International Psychogeriatrics*. 2016 Jan;28(1):157-62.
33. Schmitt EM, Saczynski JS, **Kosar CM**, Jones RN, Alsup DC, Fong TG, Metzger E, Cooper Z, Marcantonio ER, Trivison T, Inouye SK. The successful aging after elective surgery study: cohort description and data quality procedures. *Journal of the American Geriatrics Society*. 2015 Dec;63(12):2463-71.
34. Gleason LJ, Schmitt EM, **Kosar CM**, Tabloski P, Saczynski JS, Robinson T, Cooper Z, Rogers SO, Jones RN, Marcantonio ER, Inouye SK. Effect of delirium and other major complications on outcomes after elective surgery in older adults. *JAMA Surgery*. 2015 Dec 1;150(12):1134-40.
35. Vasunilashorn SM, Ngo L, **Kosar CM**, Fong TG, Jones RN, Inouye SK, Marcantonio ER. Does apolipoprotein E genotype increase risk of postoperative delirium?. *The American Journal of Geriatric Psychiatry*. 2015 Oct 1;23(10):1029-37.
36. Puelle MR, **Kosar CM**, Xu G, Schmitt E, Jones RN, Marcantonio ER, Cooper Z, Inouye SK, Saczynski JS. The language of delirium: keywords for identifying delirium from medical records. *Journal of Gerontological Nursing*. 2015 Aug 12;41(8):34-42.
37. Cavallari M, Hshieh TT, Guttmann CR, Ngo LH, Meier DS, Schmitt EM, Marcantonio ER, Jones RN, **Kosar CM**, Fong TG, Press D. Brain atrophy and white-matter hyperintensities are not significantly associated with incidence and severity of postoperative delirium in older persons without dementia. *Neurobiology of Aging*. 2015 Jun 1;36(6):2122-9.
38. **Kosar CM**, Tabloski PA, Trivison TG, Jones RN, Schmitt EM, Puelle MR, Inloes JB, Saczynski JS, Marcantonio ER, Meagher D, Reid MC, Inouye SK. Effect of preoperative pain and depressive symptoms on the development of postoperative delirium. *The Lancet Psychiatry*. 2014; 1(6), 431-436.
39. Saczynski JS, Inouye SK, **Kosar CM**, Marcantonio ER, Fong T, Hshieh T, Vasunilashorn S, Metzger ED, Schmitt EM, Alsup DC, Jones RN. Cognitive and brain reserve and the risk of postoperative delirium in older patients *The Lancet Psychiatry*. 2014; 1(6), 437-443.

40. Inouye SK, **Kosar CM**, Tommet D, Schmitt EM, Puelle MR, Saczynski JS, Marcantonio ER, Jones RN. The CAM-S: development and validation of a new scoring system for delirium severity in 2 cohorts. *Annals of Internal Medicine*. 2014; 160(8), 526-533.
41. Saczynski JS, **Kosar CM**, Xu G, Puelle MR, Schmitt E, Jones, RN, Marcantonio ER, Wong B, Isaza I, Inouye SK. A Tale of Two Methods: Chart and Interview Methods for Identifying Delirium. *Journal of American Geriatrics Society*. 2014; 62(3), 518-524.

### *Editorials*

1. Reber SJ, **Kosar CM**. Vaccine hesitancy is an old problem in need of new ideas. The Milbank Blog. February 14, 2022.
2. Reber SJ, **Kosar CM**. Vaccine hesitancy in nursing homes isn't all politics: an Update. Brookings Institute. Dec 22 2021.
3. Reber SJ, **Kosar CM**. Vaccine hesitancy in nursing homes isn't all politics. Brookings Institute. Aug 19 2021.

### *Working and Under Review Papers*

1. Variation in End-of-Life Feeding Tube Use among Persons with Dementia by Race and Site of Care (with Shekinah-Fashaw Walters)
2. How much do Co-pays Matter for Health Service Delivery: Evidence from Skilled Nursing Facilities (with Momotazur Rahman, Laura Keohane, and Kali Thomas)
3. Effect of Skilled Nursing Facility Quality on Patient Outcomes (with Vince Mor, Rachel Werner, and Momotazur Rahman)
4. Risk of Medicaid Enrollment Following a Diagnosis of Dementia (with Momotazur Rahman)
5. Do Medicare Advantage Plans Steer Enrollees Away from Low-Value Care? Evidence from Long-term Care Hospital Admissions (with David Meyers)
6. Nursing Home Use as a Risk Factor for COVID-19 Mortality: Implications for Racial Disparities (with Shekinah Fashaw-Walters and Sarah Reber)
7. Widening Gaps in Care by Accountable Care Organizations for High-needs Medicare Beneficiaries (with Huiying Yang and Momotazur Rahman)
8. Skilled Nursing Facility Utilization for Persons with Dementia under Managed Care (with Huiying Yang and Momotazur Rahman)
9. Spillover Effects of Bundled Payments on Non-Targeted Conditions
10. Organizational and Market Level Characteristics for Critical Access Hospitals Affiliated with Health Systems (with John McHugh and Momotazur Rahman)
11. Increased Diagnoses Coding in the Medicare Advantage Program: Evidence from Skilled Nursing Facilities (with David Meyers)

12. Impact of Disaster-induced Evacuation on Assisted Living Residents (with Cassie Hua and Kali Thomas)
13. The Relationship Between Long-Term Care Ombudsman Program Spending and Nursing Home Outcomes (with Katherine Kennedy and Kali Thomas)
14. Nurse Practitioner Care, Scope of Practice Regulations, and End-of-Life Outcomes for Nursing Home Residents with Dementia (with Bishnu Thapa, Betsy White, and Momotazur Rahman)

## Teaching Experience

### *Instructor of Record*

1. Medicare: A Data Based Policy Examination (Brown University, Fall 2022 and Spring 2023)

### *Teaching Assistantships*

1. Healthcare in the United States (Brown University, Spring 2016-2019, Instructor: Ira Wilson)

### *Invited Lectures*

1. Long-term Care in the United States (Boston University, Fall 2019-2020, Instructor: Sarah H. Gordon)
2. Descriptive Data Visualization and Analysis (University of Minnesota Duluth, Spring 2021, Instructor: Lacey Loomer)

## Grant Funding

### *Current*

1. Coding Variation and Spillovers in Medicare Advantage (Laura and John Arnold Foundation Grant #22-07528, \$700,000 in direct costs awarded, **Role:** Principal Investigator)
2. The Impact of Advanced Practice Clinicians on End of Life Outcomes for Older Adults with Dementia (National Institute on Aging Project No. 2P01AG027296-11, **Role:** Co-Investigator)
3. Alzheimer's Disease and Related Disorders Treatment and Outcomes in America: Changing Policies and Systems (National Institute on Aging Project No. 2P01AG027296-11, **Role:** Co-Investigator)

### *Previous*

1. 2018-2019: Can Nursing Homes Predict how Profitable Post-acute Patients will be? Effects on Patients' Choice of Provider and Outcomes (Agency for Healthcare Research and Quality Project No. R36 HS26447-01, PI: **Cyrus M. Kosar**)
2. 2017-2018: Rural-Urban Disparity in Post-Acute Care (National Institute on Aging Project No. 2R21AG053712-01A1 PI: Momotazur Rahman)
3. 2015-2017: Shaping Long-Term Care in America: Policies, Markets, Strategies, and Outcomes (National Institute on Aging Project No. 3P01AG027296-09S1, PI: Vincent Mor)

## Presentations

1. Increased Diagnoses Coding in the Medicare Advantage Program: Evidence from Skilled Nursing Facilities. American Society of Health Economists Annual Meeting, 2022.
2. Nursing Home Use as a Risk Factor for COVID-19 Mortality: Implications for Racial Disparities. NBER COVID-19 and Health Outcomes Conference, Fall 2021
3. Are Persons with Dementia Admitted to Lower Quality Nursing Homes for Postacute Care? AcademyHealth Long-Term Services and Supports Interest Group, 2020
4. Diagnosis Coding and Differences in Mortality Rates Between Critical Access and Non-Critical Access Hospitals. AcademyHealth Annual Research Meeting, 2020 (canceled due to COVID-19)
5. Do Medicare Advantage Plans Steer Enrollees Away from Low-Value Care? Evidence from Long-term Care Hospital Admissions. AcademyHealth Annual Research Meeting, 2019
6. Identification and Evaluation of Informal Inter-Organizational Ties between Hospitals and Skilled Nursing Facilities. American Society of Health Economists Annual Meeting, 2019
7. Nursing Home Selection for Postacute Care: Does Expected Length of Stay Matter? American Society of Health Economists Annual Meeting, 2018
8. Obesity, Healthcare Utilization, and Adverse Outcomes Among Post-Acute Skilled Nursing Facility Residents with Hip Fracture. AcademyHealth Annual Research Meeting, 2017
9. Delirium During Postacute Nursing Home Admission and Risk for Adverse Outcomes. AcademyHealth Long-Term Services and Supports Interest Group, 2016

## Service

1. Ad hoc reviewer for: AcademyHealth Annual Meeting (abstracts), Journal of the American Geriatrics Society, Journal of the American Medical Directors Association, Medical Care, Geriatric Nursing, BMC Palliative Care, BMC Geriatrics, British Medical Journal, Health Affairs, JAMA, JAMA Network Open, JAMA Health Forum
2. School of Public Health Faculty Thesis Advisor (2022-2023)

## Other Professional Experience

2011-2015

Staff Statistician, Data Manager  
Hebrew SeniorLife, Institute for Aging Research, Boston MA

2007-2011

Research Assistant  
Boston University Department of Political Science, Boston MA

2007-2011

Research Assistant (Remote)

UCLA Luskin School of Public Affairs, Los Angeles, CA